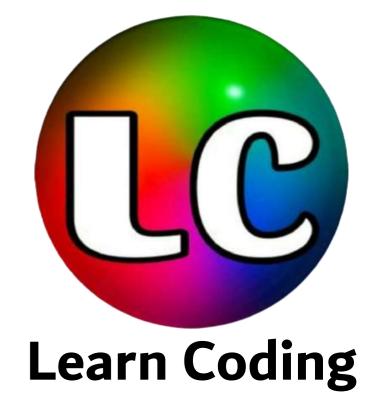
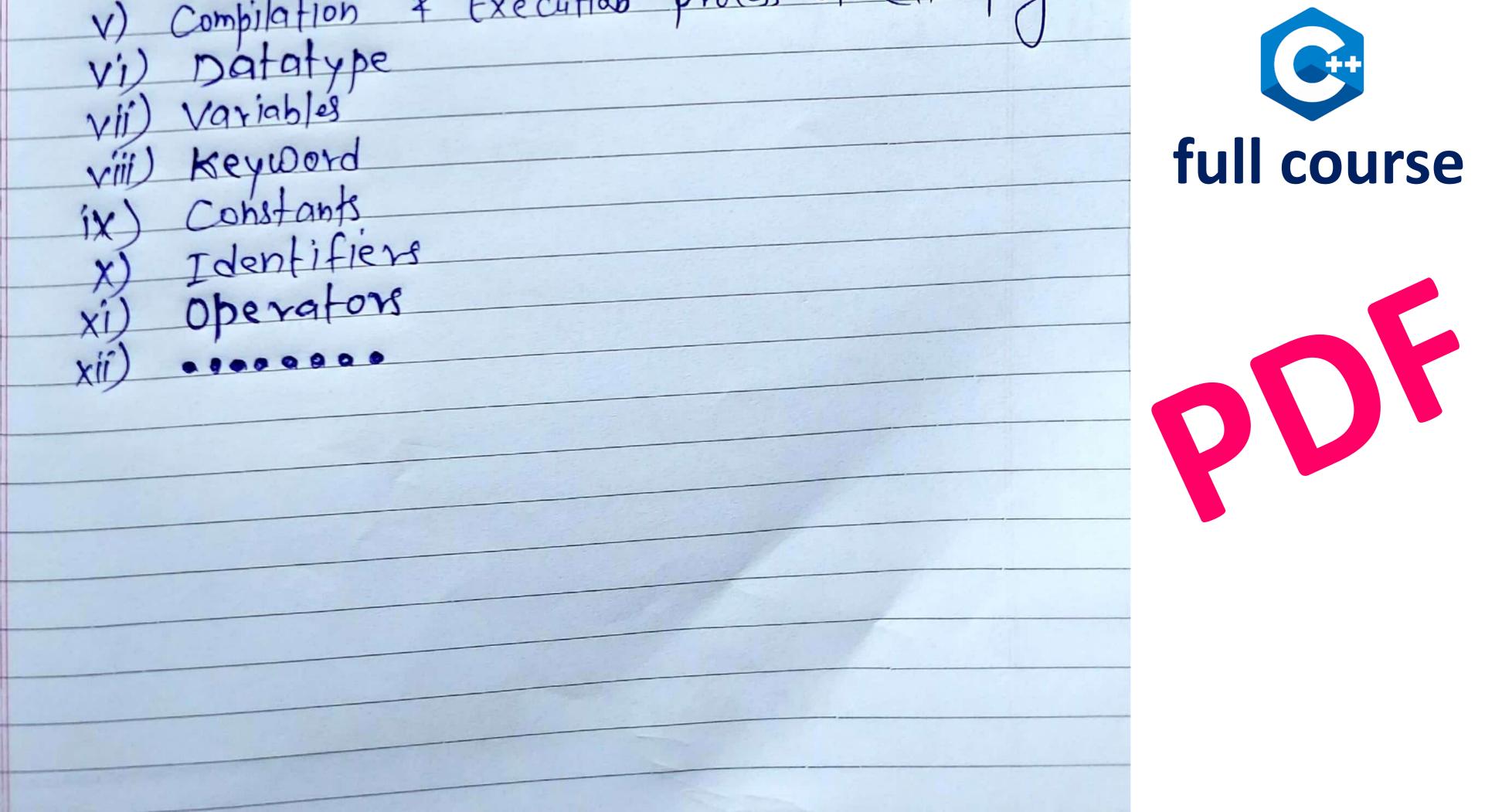
Page No :\_\_\_\_ Date :\_\_\_\_\_\_\_ C++ Full Course C++ Syllabys:-O C++ Basic i) Introduction to C++ ii) Structure of Ctt Download iii) -> Tyrbo C++ Compiler -> Dev C++ -> Code:: blocks iv) Run First C++ program.
v) Compilation & Executive process of C++ program.
vi) Datatype
vii) Variables

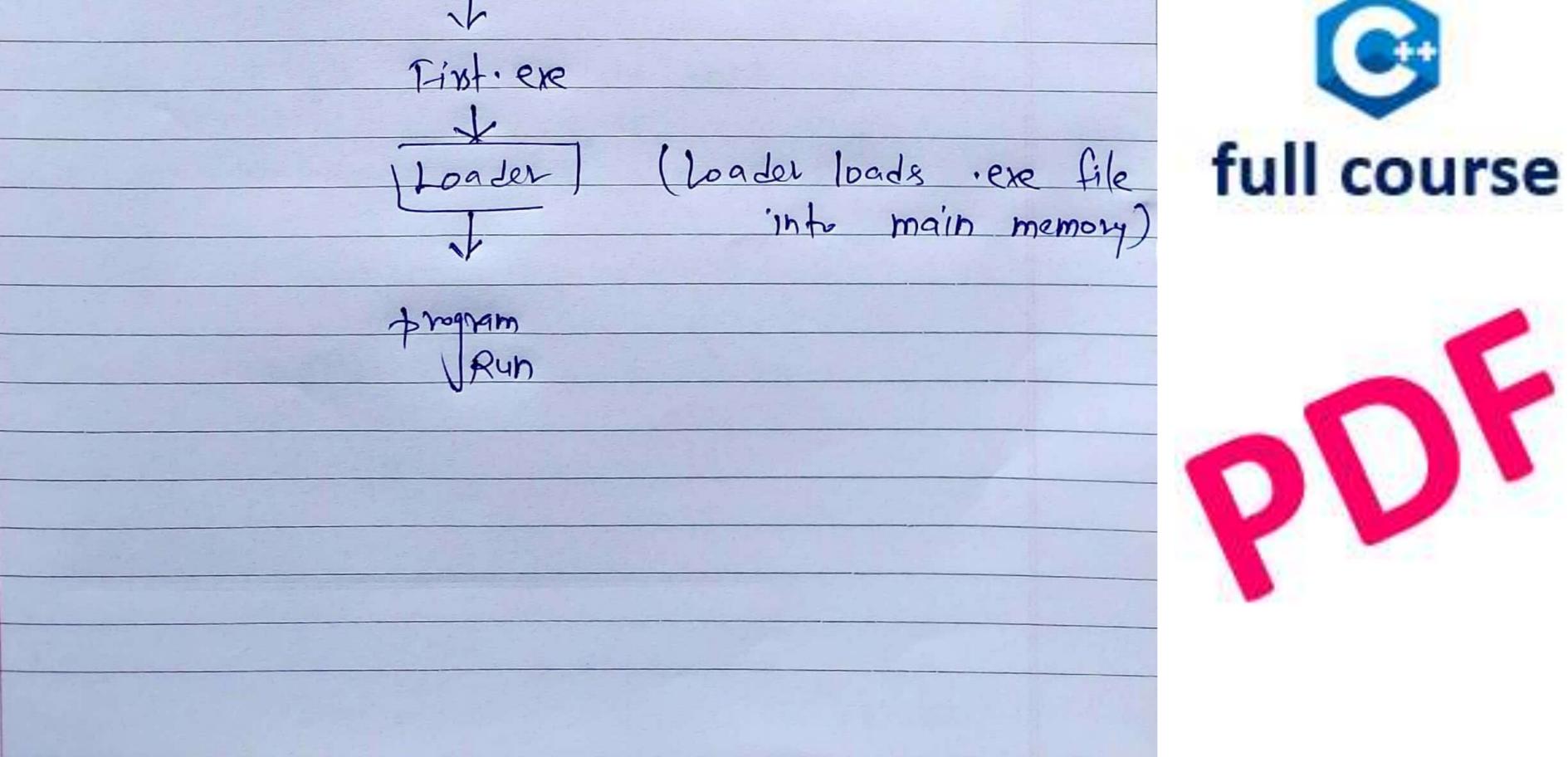






Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ full course Q. What is C++? full explaination. Ans C++ is a high-level semi-obilect Oriented programming language developed by "Blarne Stroustrup" in the year 1979, at "BELL LAB". Note:-i)C++ is a case-sensitive larguage. ii) In earlier the hame of C++ was "C with classes". Learn Coding iii) C++ is a portable programming language. SUBSCRIBE Syntax of C++ program:full course # include < iUstream.h> # include < Conjo. h> 001 return-type main() & // Code; 2 HOW to Download "Turbo C++"

Page No :\_\_\_\_ C++ Full Course Date :\_\_\_\_\_/\_\_\_ Compilation & Execution process of C++ program :-Fipt. CPP Preprocessor (links header files) Learn Coding Compiler ~ SUBSCRIBE Fixt. obi V (all more than one object Linker files & libraries)



Page No :\_\_\_\_ Date :\_\_\_\_ C++ full course Q. What is datatype? full explaination. Ans> Data-type defines the type of value mean what kind of value the variable voill store. C++ has 3-types of datatype:-D Basic doita type. D Derived data type. (11) User-defined doita type. Learn Coding SUBSCRIBE Basic data type :-Size Range O int 4 bytes -32768 to +32767 Ochar -128 to +127 1 byte -3.4E to 3.4E38 full course Ofloat 4 bytes 8 bytes O double ( bool 1 byte true to false Void No Size

Page No :\_\_\_\_ Date :\_\_\_\_ C++ F'ull Course Derived data type :- Array
Function pointer
Reference User-defined data type :-Learn Coding O Structure ( Uhion SUBSCRIBE O class () Enymeration

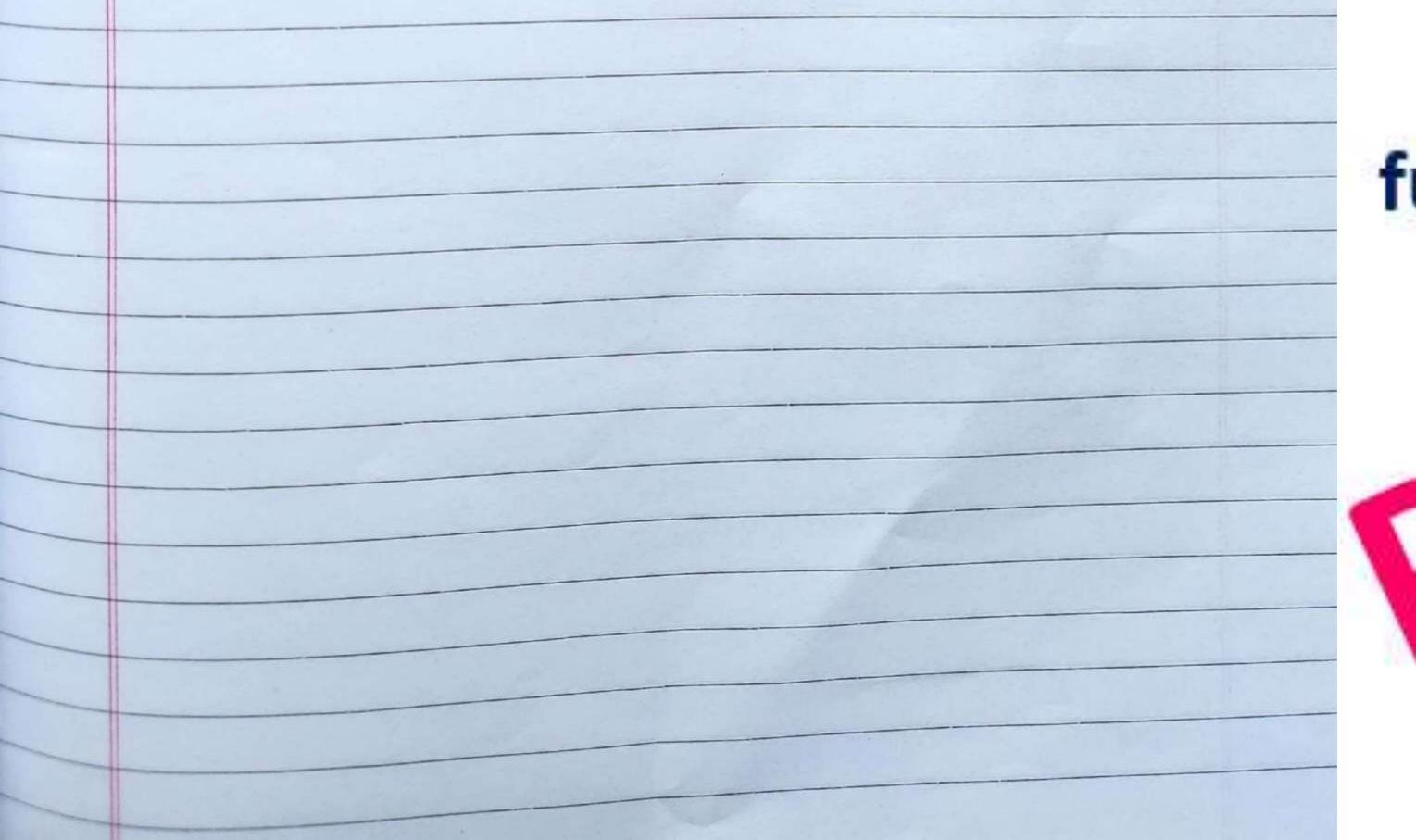






Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. What is Keyhlord? full explaination. Ans Xeylalord is nothing but reserved word, whose meaning already defined on the Compiler. Note: - Diwe can't use keyword as a variable & constant hame. De Keyword must be in lowercase. for\_ex > int, char, float, static, inline, template. Class, struct etc....

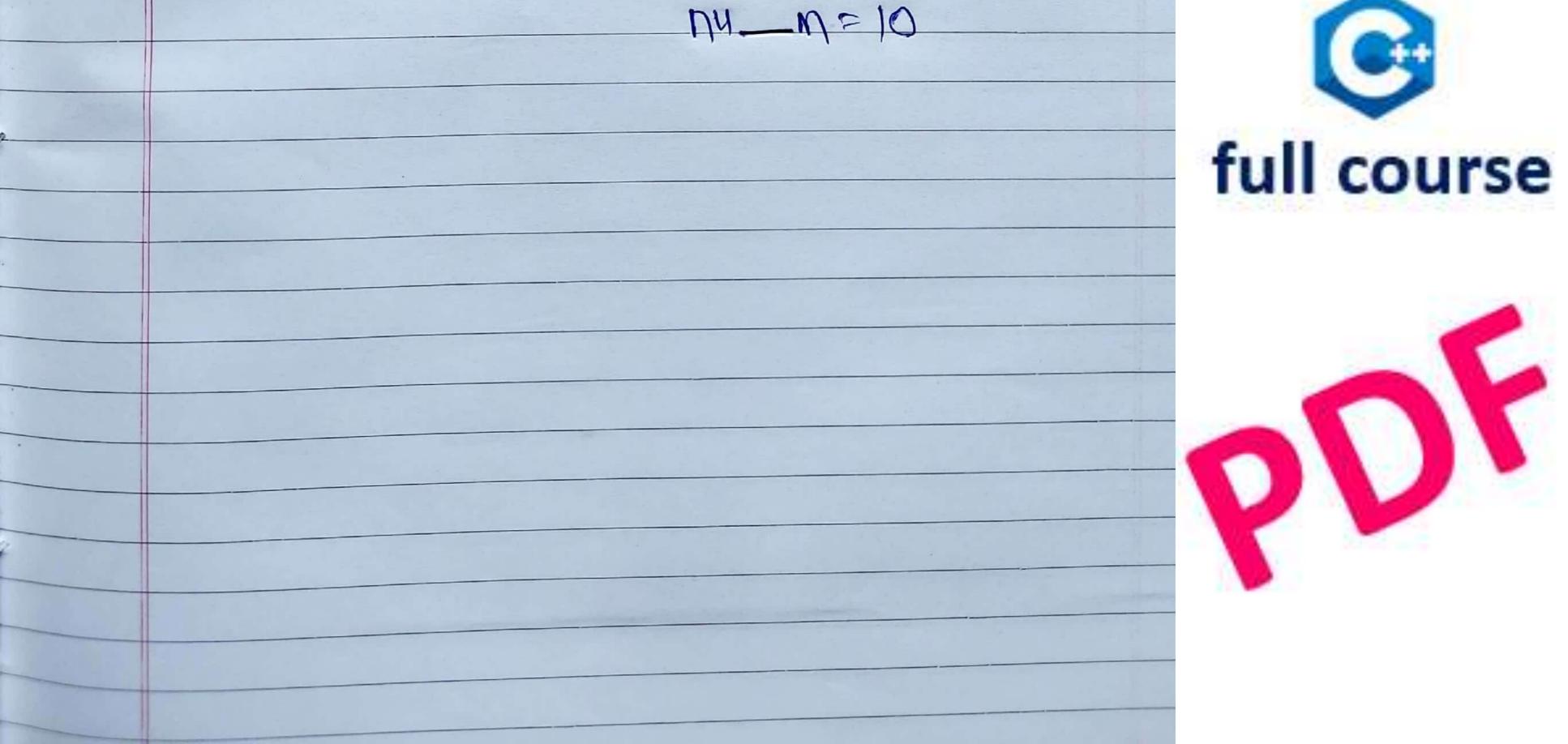




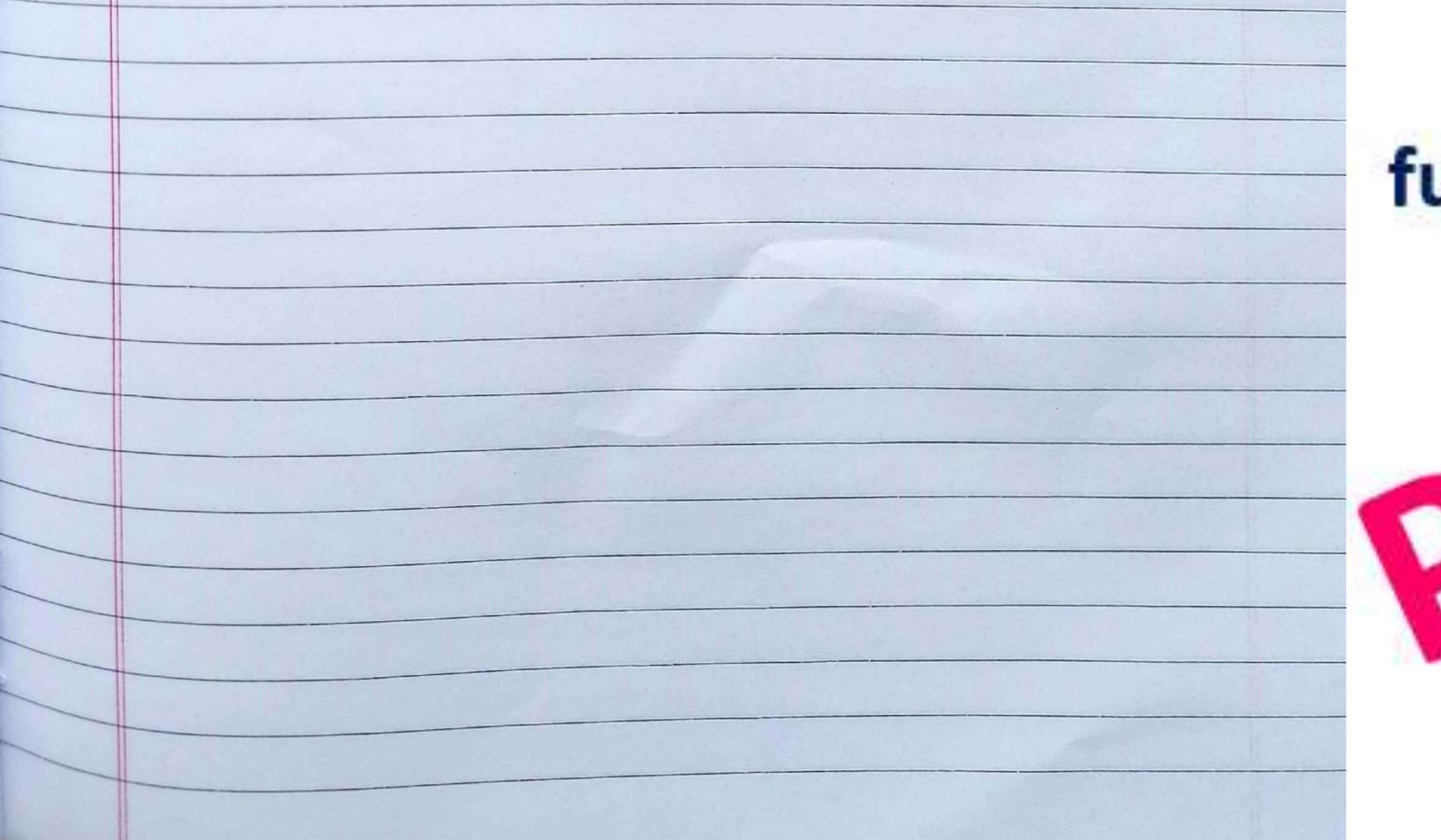




Page No :\_ Date :\_\_\_l C++ Full Course Inlbat is variable? full explaination. Q. Variable is the Ans-> hame of locatio memory where we store value. 1254 IOL Note: infg=10L MSC. Variables are case-, sensetive in C+t. OI X Learn Coding (1) In. C++, variable must be starts with either (a-z', A-z) or (underscore). \_92= SUBSCRIBE 92= (1) we can't give extra spaces between the Variables hum=10



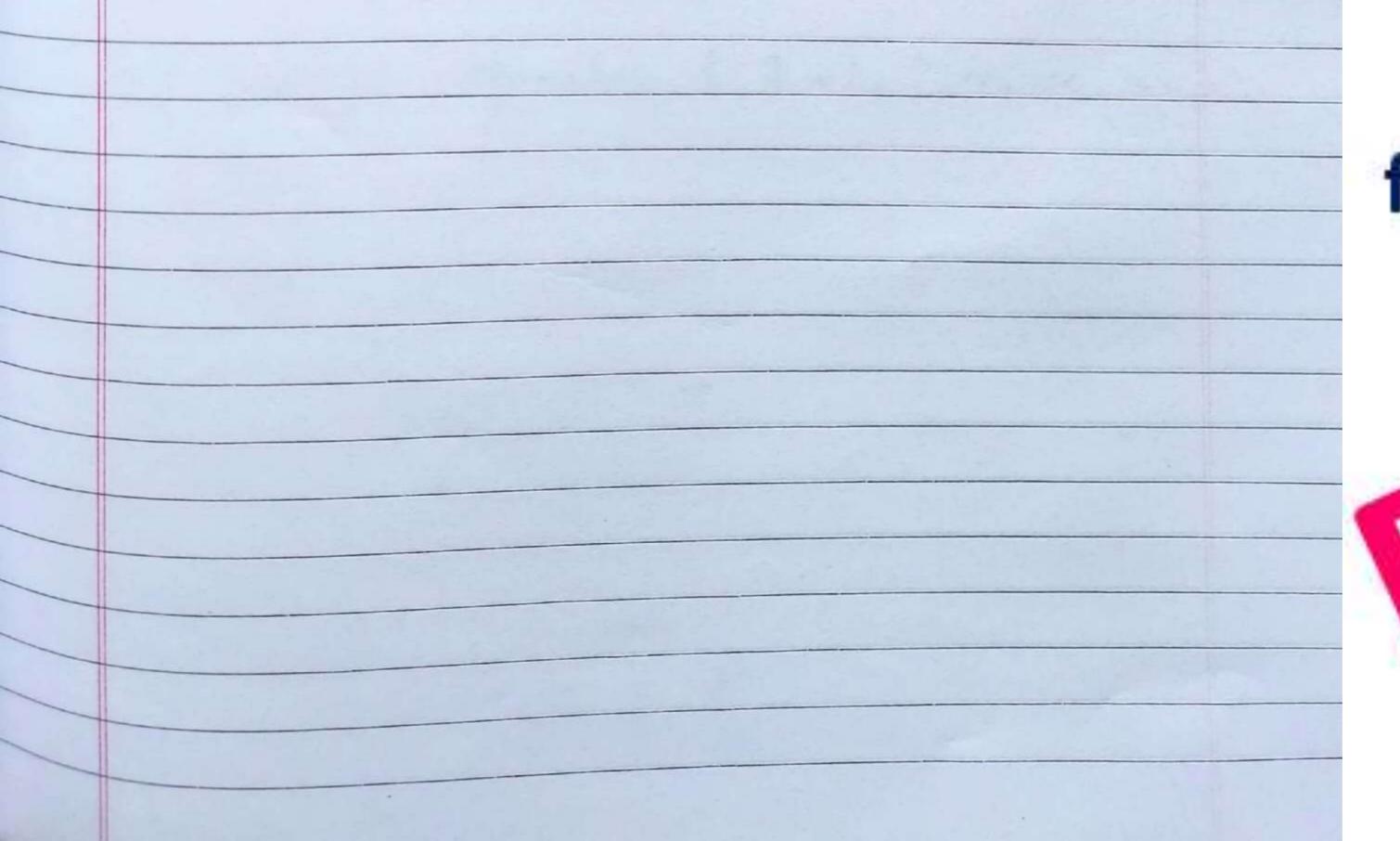
Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. what is Constant? full explaination. Ans Constant means fixed value, which does not "change in run time. Note: - 1) Const Keywoord is used to declare a Constant. 11) Constant Can be of any data type. Learn Coding 111) Constants are also called literals. SUBSCRIBE 12) we can change the value of constant for using pointer.







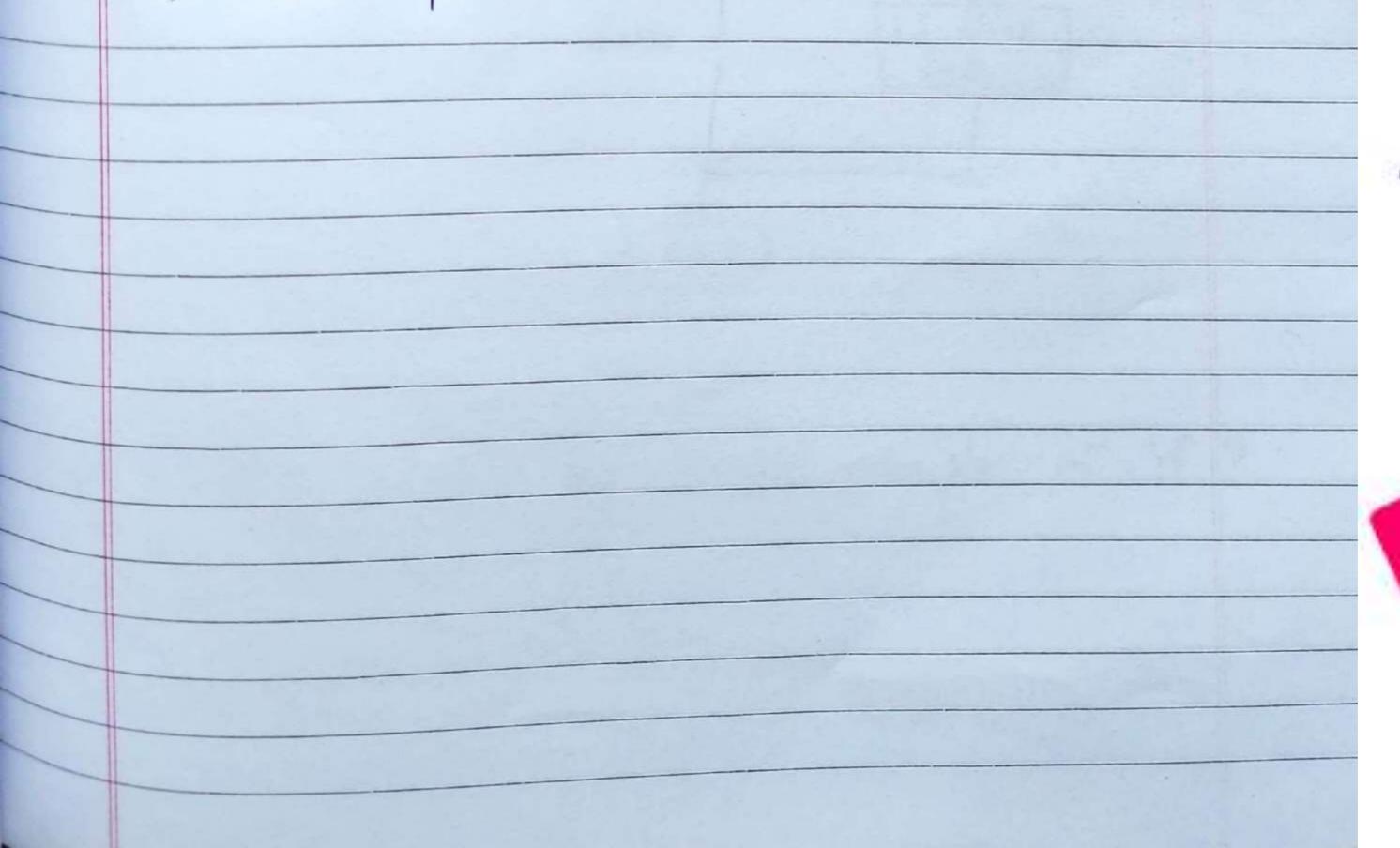
Page No :----C++ Full Course Date:\_\_\_l\_J\_. Q. What is identifier? full explaination. Ans-> Identifier refers a name used to identify a voriable, function, class, module or any other User-defined item. Mote: - Keywoords Cam't be used as identifier hame. Learn Coding SUBSCRIBE







Page No :.... C++ Full Course Date :....l.J... Conditional Statement: -• 1) 'if if - else 11) hested if-else 10) else-if ladder V) Switch Stalement Learn Coding  $\bigcirc$ Looping Statement:-SUBSCRIBE while do-while for 111) nested loops. IV)



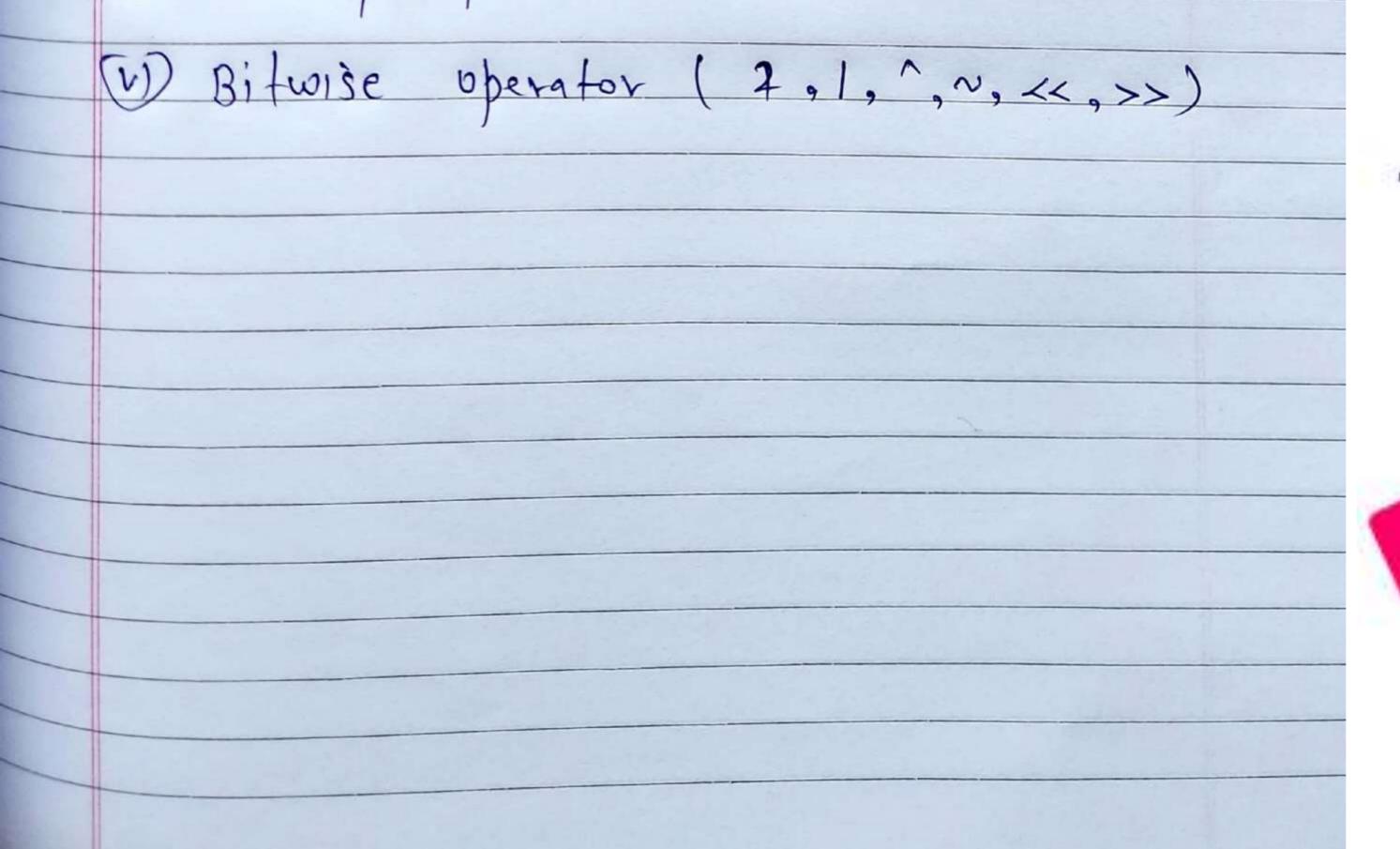




Page No:\_\_\_\_\_ Date:\_\_\_\_\_ C++ Full Coyrse Q. What is Operators? full explaination. Ans> Operators is a symbol that is used to perform mathematical and logical task. C++ Operators :-D Anithmetic Operator (+,-,+,',-) D Relational operator (>, <,>=,<=,==,!=) (II) hogical operator (22,11,1) SUBSCRIBE (Iv) Assignment operator (=, +=, -=, \*=, /=)(v) Ternary Operator (?:)







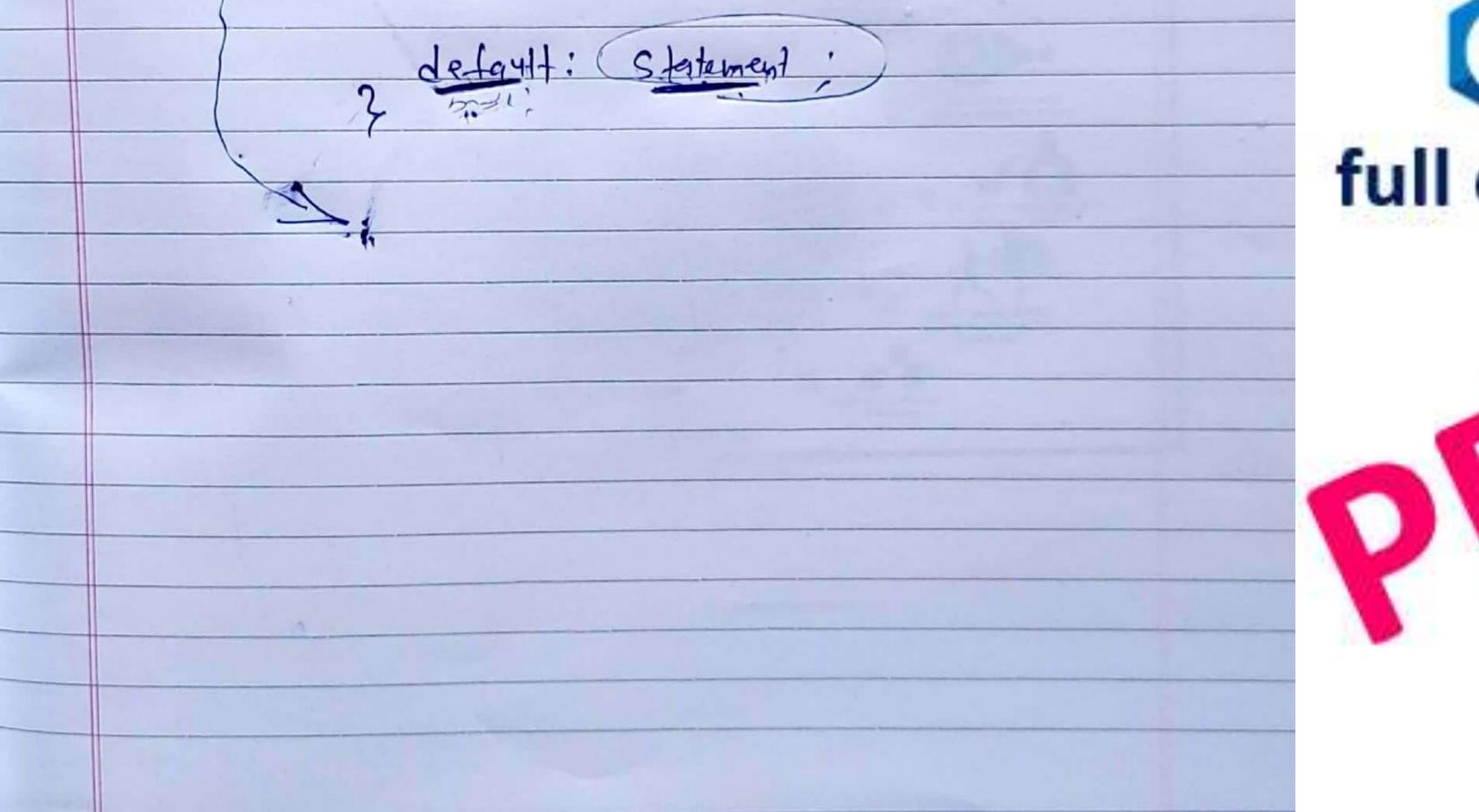




Page No:\_\_\_\_\_ Date:\_\_\_\_\_ C++ Full Course what is if-statement? Q. If statement test conditions, if condition is true then if block code will be 17hs> executed Otherwise no action taken. Syntax:- if (condition) S II codes; Learn Coding 3 Flowchart :-Ster. SUBSCRIBE true Con Litis h of block false Code full course end W.A.P. to show the simple example of if? Q.

Page No :\_\_\_\_\_ Date :\_\_\_\_\_ Ctt Full Course Inlhat is Switch Statement? Switch Statement Wed when we want to select only one case out of multiple cases. 3 Syntax:- Switch (exp) 3) Sox 2' Statement 1; break Carle Statement 2; -break ) +----Case b: statement b' break?

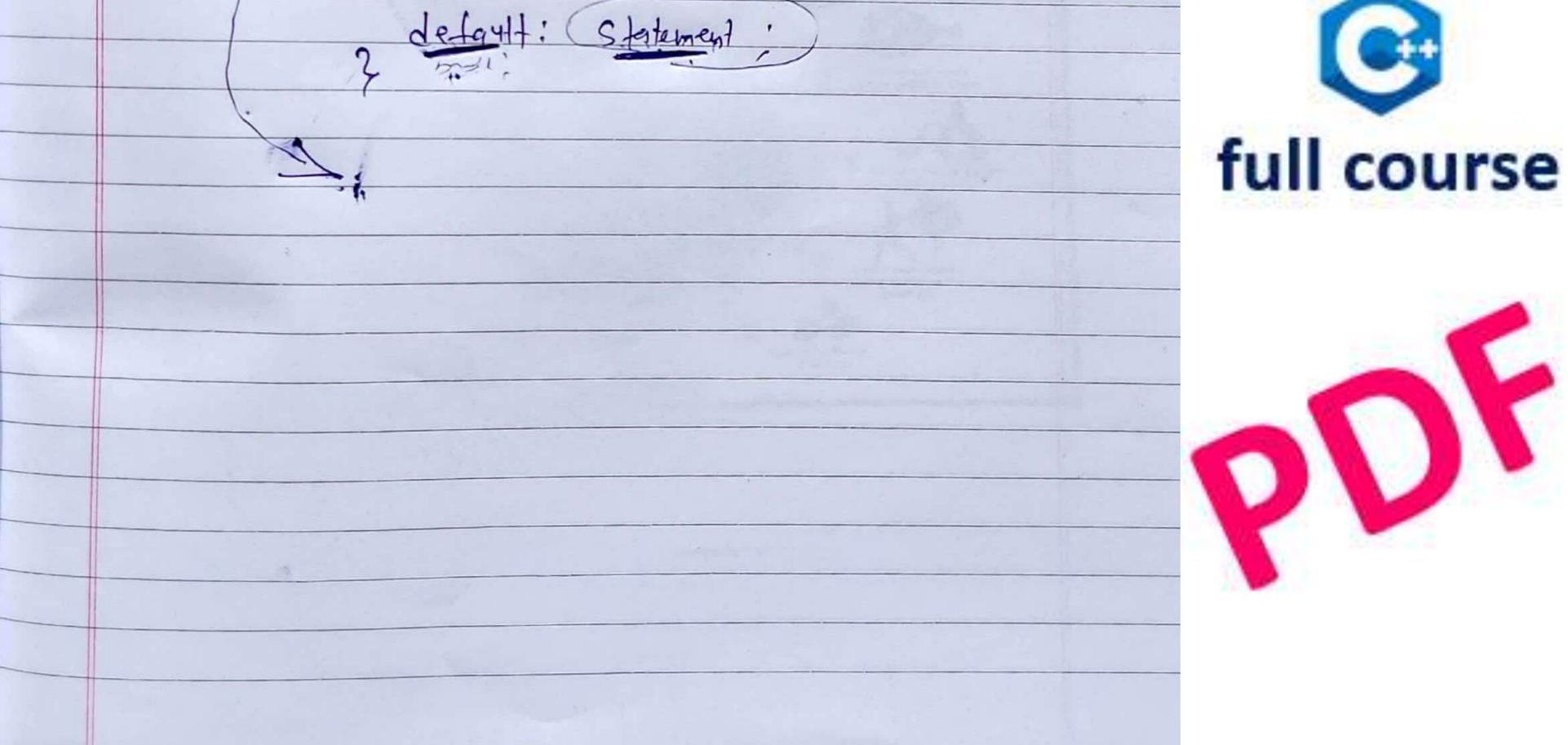




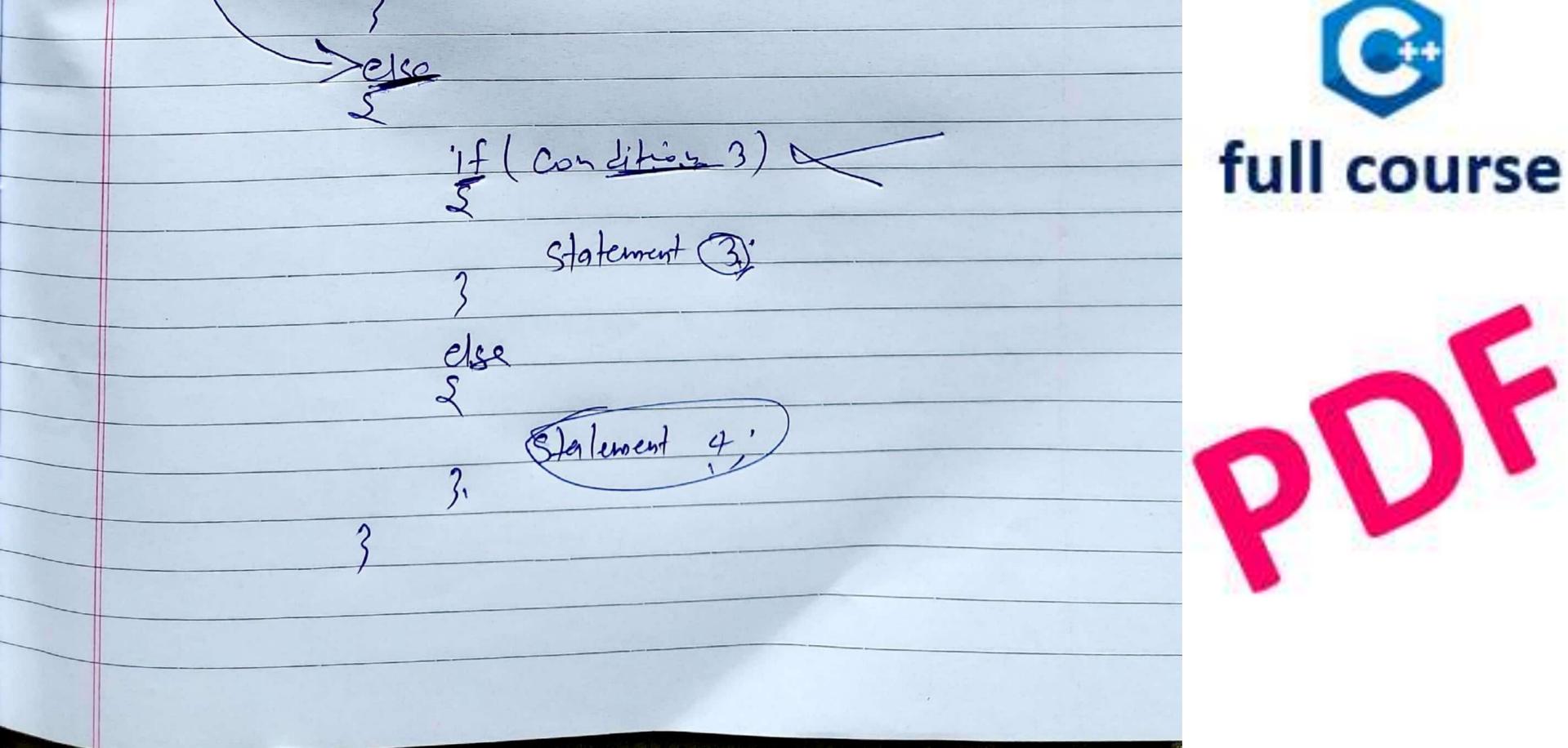




Page No :\_\_\_\_ C++ Full Course Date :....L\_J Inlbat is Switch Statement? Q. Anon Switch Statement Wed when we want to select only one case out of multiple cases. Syntax:- Switch (exp) 3) Sox 2: Statement I ; Learn Coding Chreak A Carle Statement 2; Break ) SUBSCRIBE +---Case b: Statement b' break,

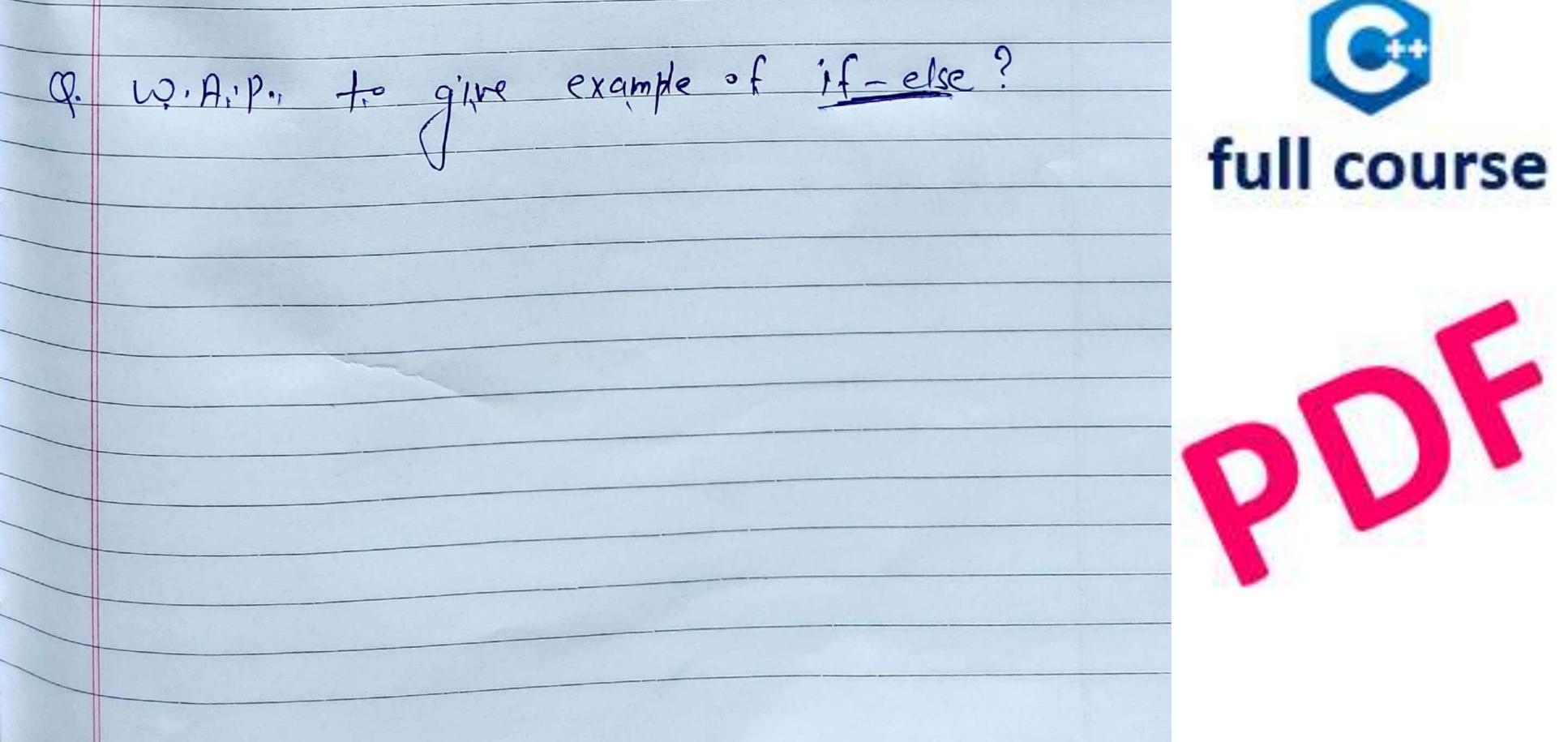


Page No :\_\_\_ C++ Full Course Date :\_\_\_\_\_\_\_\_ What is nested if - statement? else statement? Q. whenever we defined (if else block inside Ans-> another (if- else block called nested, if Statement. else Systax:of ( condition ! 2 if (condition 2) X Learn Coding 2 Statement 1' 2 SUBSCRIBE else Statement 2) 2



Page No :\_\_\_\_ C++ Full Course Date:\_\_\_\_\_ What is else-if ladder statement? Q. else-if, ladder statement is used when we have myltiple conditions (more than one conditions) Ans> if (condition 7) L Syntax :-Statement 1 2 Learn Coding f ( condition 2) else SUBSCRIBE 2 else z. Statement 3: ~ Q. W.A.P. to show the example of else-if ladder? full course 

Page No :\_\_\_ C++ Full Course Date:\_\_\_\_\_ 1.f.- else statement? Cl, what is Ans > used to excerite two statements for Jt. 15 Single Condition, if given Condition is if block exemped otherwoise else true Bock will be executed. if (condition) Syntax:-Learn Coding Statement 1 2 else - Zi SUBSCRIBE Statement 2 2.



Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. lalbat is gray? full explaination. Array is a derived data type which is Constructed by the help of primittive data type. It stores mylfiple Values in single variable Syntax !-Learn Coding data-type ant-var [size]; SUBSCRIBE q. w. A. p. to show the example of array. Types:-I-> 1 D Imay >20

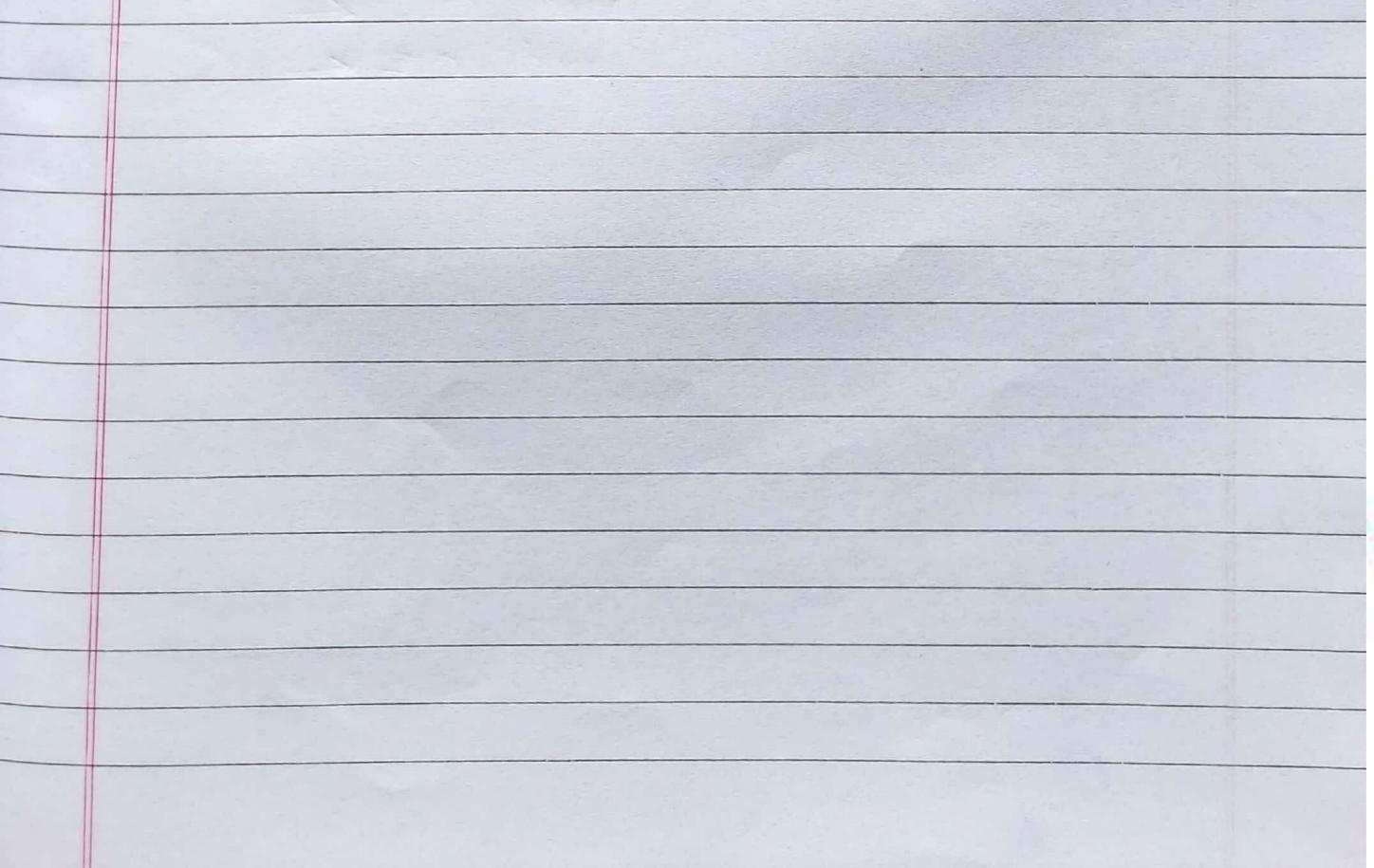




Page No :\_\_\_ Date :\_\_\_ L C++ Full Course Q. what is (increment) & Lecrement) Operator Ans Increment Operator :- Increment operator is used to increase the va of voriable by 1. Types:-Learn Coding -> Pre-ibcrement (++a) -> · post - increment (a++) SUBSCRIBE Decrement Operator: - Decrement operator: Wed to decrease the value of variable by 1. yper -> Pre-decrement -> Post-decrement == 9 full course [a+-

Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. lathet is string? full explain attion. Ano A Shing is a one-dimensioned away of chargeters terminated by will characters. Syntax:- datatype Str. var [Size]; Learn Coding SUBSCRIBE String Pre-defined functions:strien() 57 0 Str(p7()  $\bigcirc$ Strrev() full course Streat ()  $(\cdot)$ and go on.

Page No :\_\_\_\_\_ Date:\_\_\_\_\_ C++ Full Course Jump Statement:-Q. Break · Ville ical -> Continue > goto exit -> return Learn Coding SUBSCRIBE







Page No :\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. what is do while loop? Anor It is also known as exit control loop, be cause it tests condition at the end of loop body. Mote:- Off executes of once even the given Condition is the Or false. Learn Coding Syntax:- do 11 statements; SUBSCRIBE 3 incr/ Lear ' while (condition). 3 Q. W.A.P. to Show the simple example of do-While loop. full course 





Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. Malbat is loop? full explaination. Ans> Loop is nothing but iterative statement which allows allow a block of code to be executed repeatedly. Types of loops:-1) while loop in while loop is also known as entry controlled loop. The statement will be executed continously until the given Condition is no longer satisfied. Learn Coding SUBSCRIBE Syntax:- while ( condition) 11 Statements; inco/ deer " 2 full course Q. M.A.P. to show the simple example of while loop. 

Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course for loop :- Unlike while loop, for loop performs all operations in single line. Q. Syntax:- for l'initialization: condition; iner/deer) 11 block of Cudes; Learn Coding 3 SUBSCRIBE Q. INI. A. P. to show the simple example of for 100p.



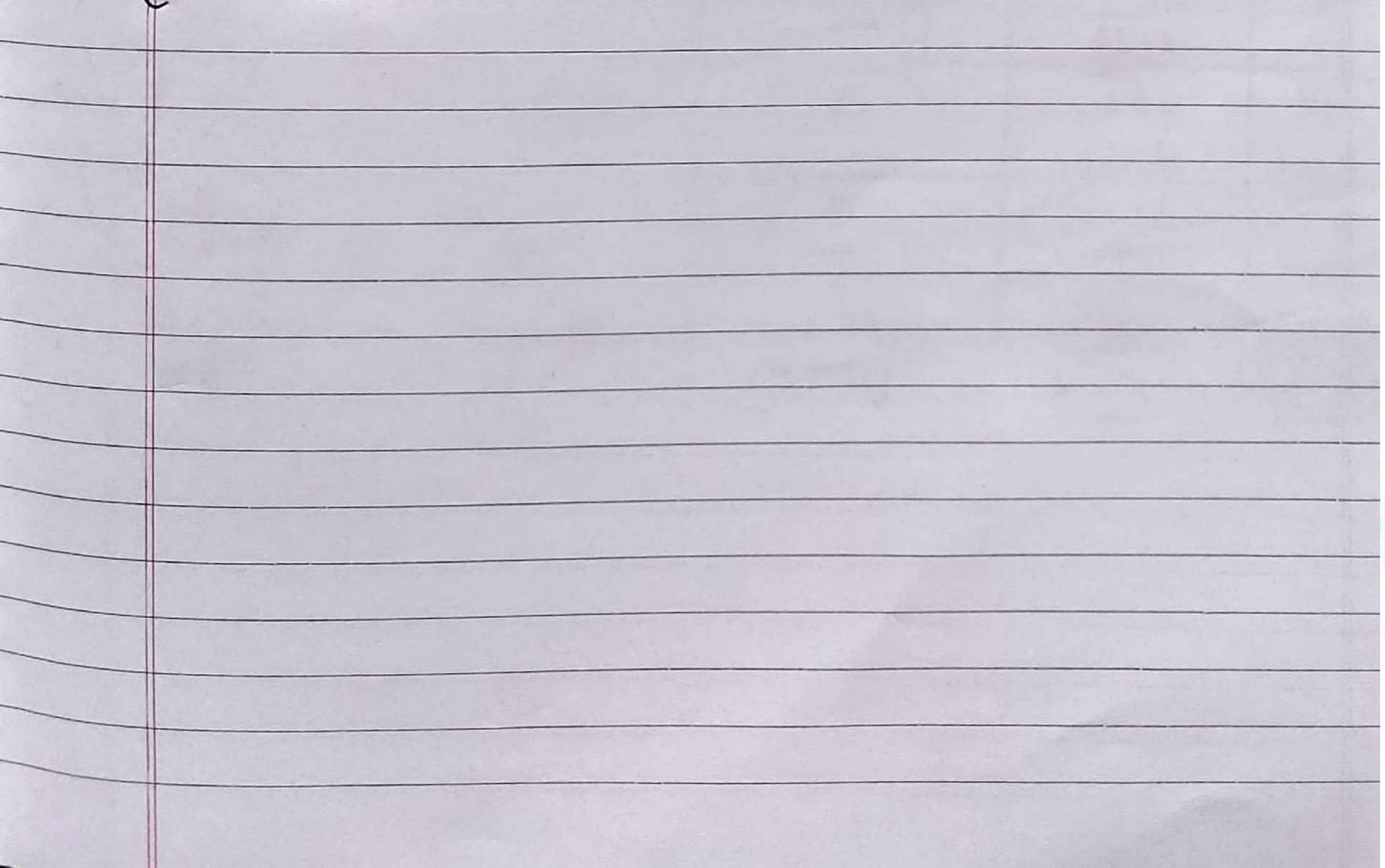




C++ Full Course 0 Derivet Patatype sinter Fysction 111 N Learn Coding SUBSCRIBE



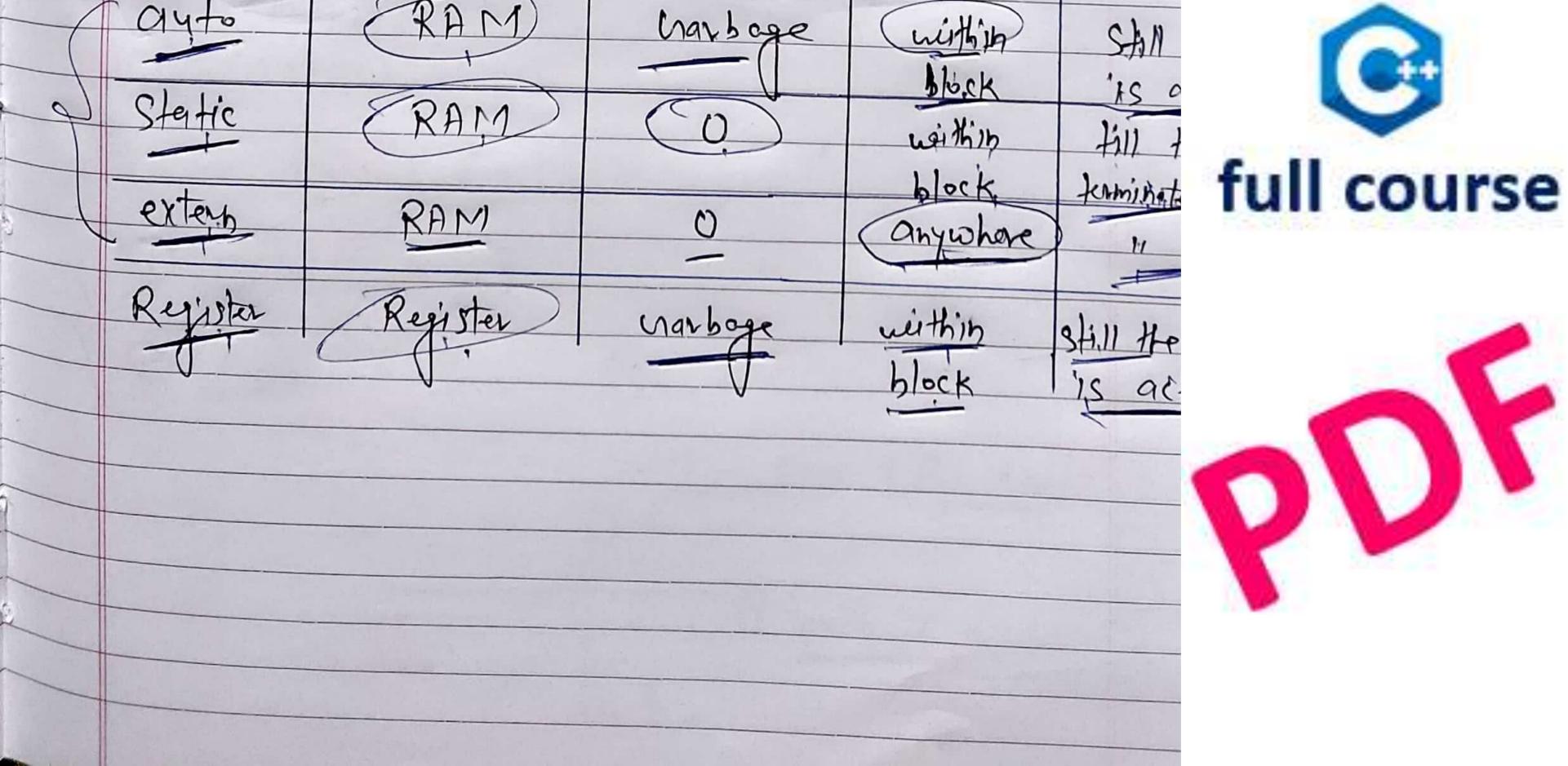
Page No :\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Storage class:- $\odot$ • Function:-Doyto DUSen- Lefined static (1) pre-, defined D Jogister (IV) (extern Learn Coding  $\odot$ User-defined datatype:-Hendlin SUBSCRIBE ehym Structure n (III) Exception Man? 2) (IV) a





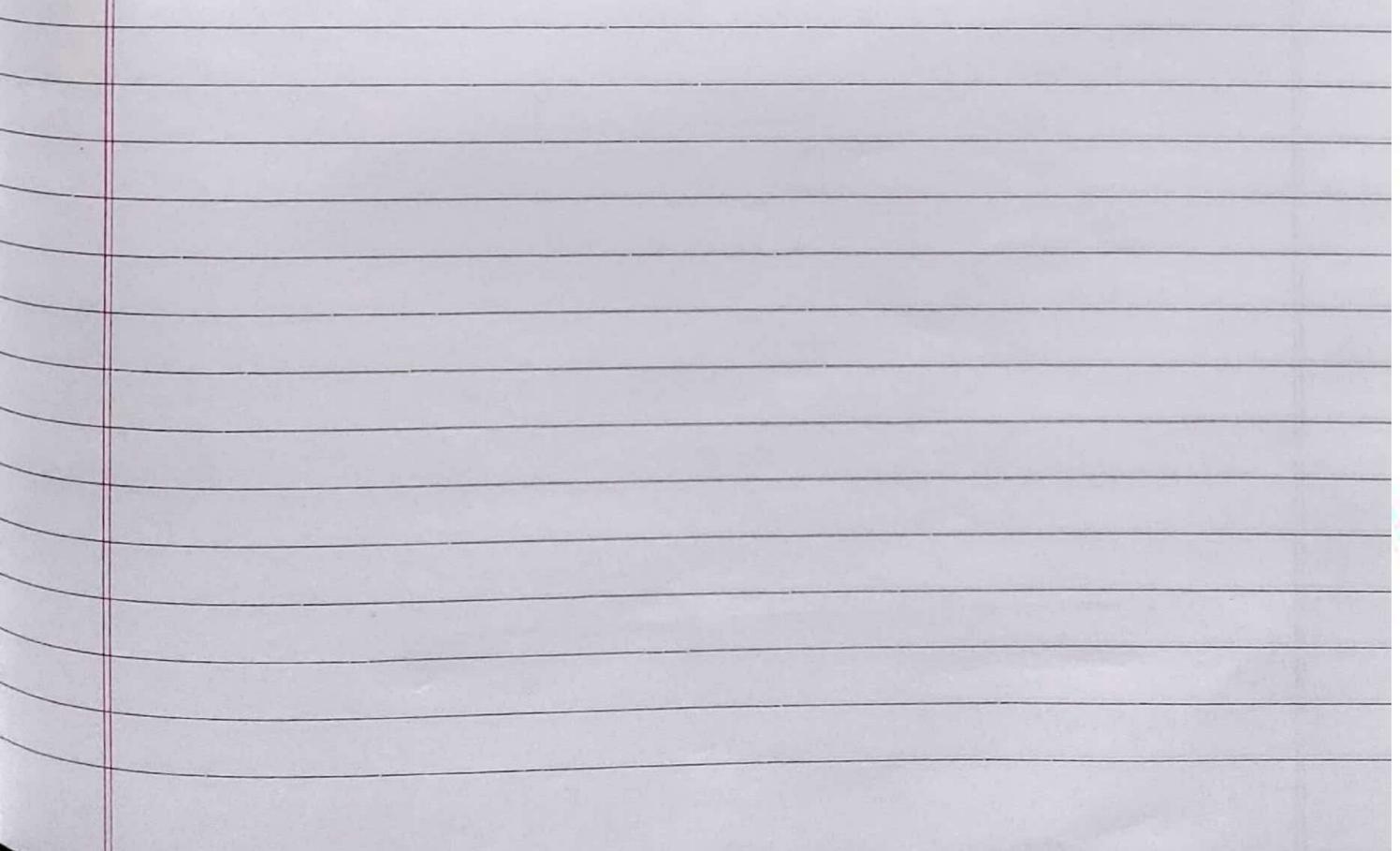


Page No :----Date :.... I \_ J \_ \_ . C++Full Course Inlhat is storage class? full explaination. ħ, Q. Storage class lifetime of Ame> defines the Scope and Variable and function. Types :-1. gyto ( local) 11. Static ł Learn Coding 111. register 1V. extern. 10/069/ SUBSCRIBE Memory Storage Scope de faylt life Clans Value RAM auto



Page No :-----C++ Full Course What is function? full explaination. Q. Ans > Function is a block of Code that runs Only when it is Called . 5 - 3 types:--> Pre- Lefined function. Learn Coding > User-Lefined function. SUBSCRIBE Pre-defined function!-D Strepy(); D Strepy(); D Strep(); D Strep(); (11) full course User-defined function :maill 1.44() Syntax:-Jetum-type fun-name Your 42

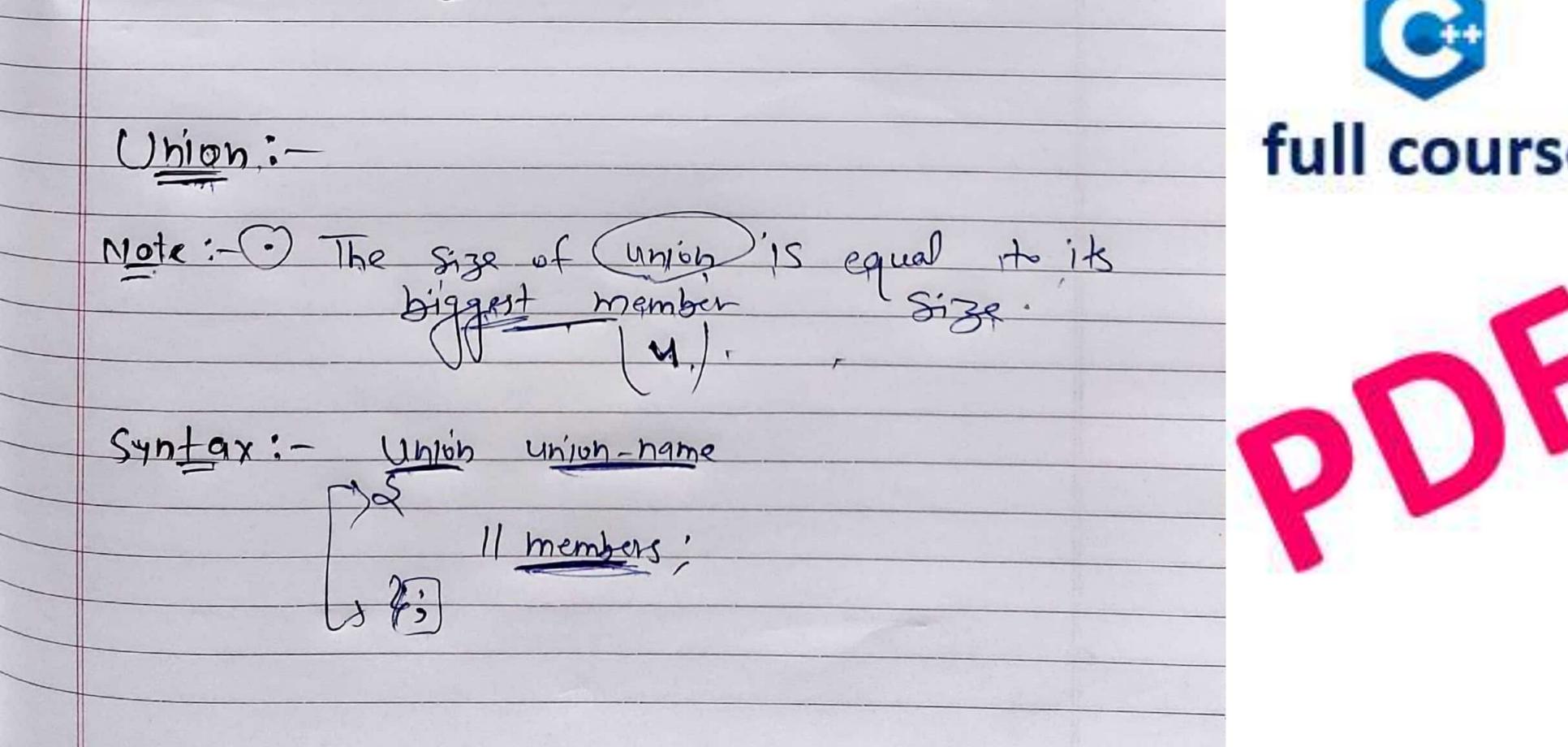
Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course what is enum detatype? q. Enumeration 15. a user defined hame that Consists of integral Constants. Ans> Syptax:- month -> 12 Week > 7 logs Chym enym-name & valuel, valuez, ---- value NZ; Learn Coding Conflavolitel -> 0 SUBSCRIBE enum-nome vary = value2; cright Vary -> 1







Page No: C++ Full Course Q. Mahat is Structure? full explaination. Ans-> Struture is a user- refined dateitype which are-wed, to i store, dis-similar types of value. Mote: - O The size of Structure is equals Sum of all structure member size. Learn Coding Syntax:- Struct Structure-name SUBSCRIBE I members ! 21-

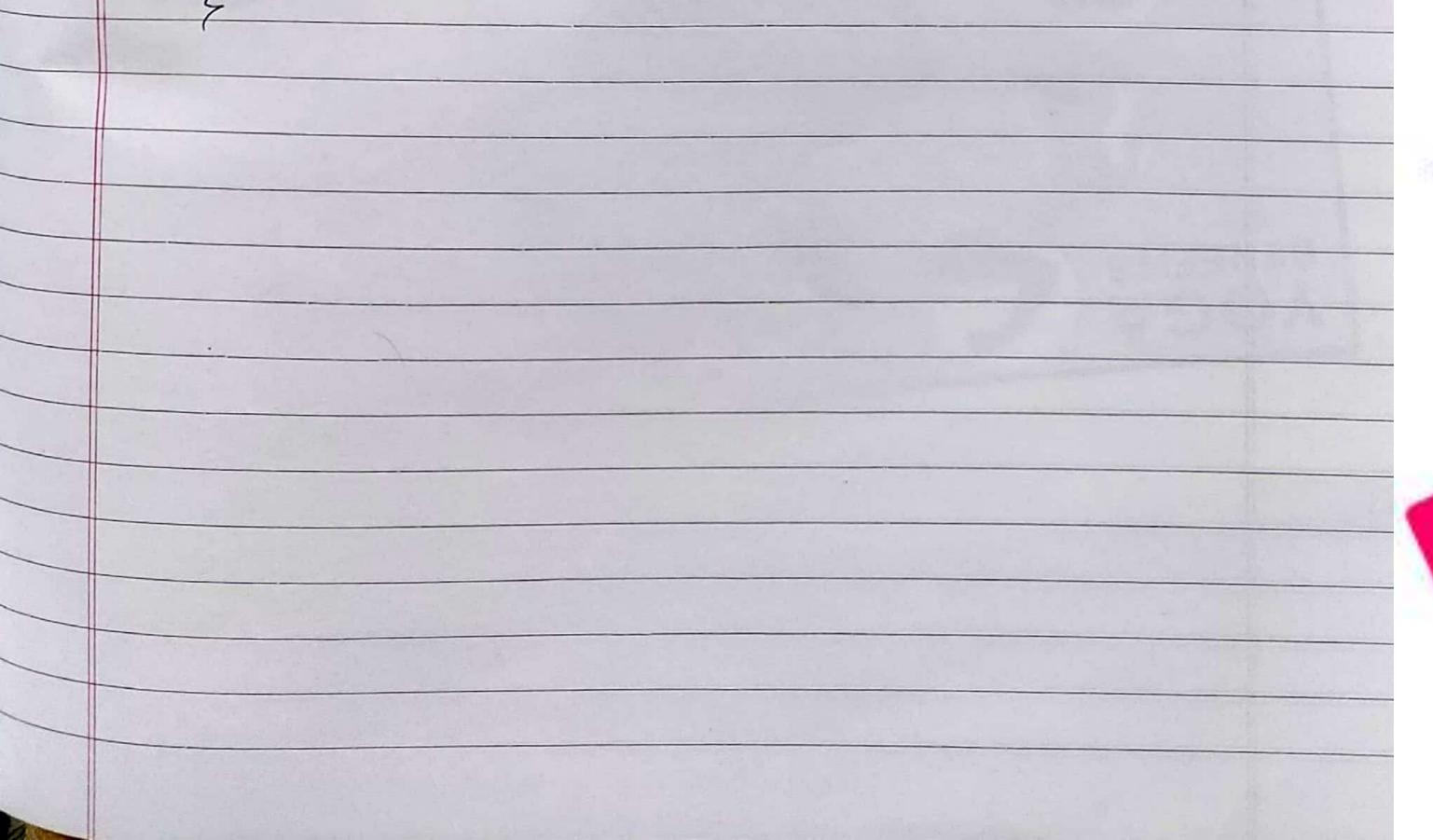


Page No :-----C++ Full Course Q. What is Macro? full explaination. Ans > Macro is a peice of code in a program which is given Some name. Whenever the ( name is Jused, it is replaced by the Contents of the macn. Note: - O Macro is define by the help of Learn Coding # define. Syntax:-SUBSCRIBE # define macro-hame Content Types:- $\sim 101^{\circ}$   $(1)^{\circ}$   $k_{-}$   $\log c_{-}$ 

-> Object like macro. -> Function like macro.	
	full cour
	$\overline{\mathbf{D}}$

Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ File Handling Mhat is file handling? full explaination. Q. File handling is a mechanism to that we can store I the ontput of the program in the file and we can perform many operations on the data present, in a file. Ans> Learn Co file SUBSCR read write program Cont ought + Cih full cou File Operations: -> Create -> Write -> vead > Ofstream ÷ > ifstream

Page No:\_\_\_\_\_ Date:\_\_\_\_\_ C++ Full Course Inlbat is exception handling? Q. An exception is unexpected / unwanted/abnormal Situation that Occured at runtime Called exception. Ans-> Syntax :-Learn Coding ty Hnow exception 3 Catch (type ang) 3 SUBSCRIBE 2 11 Solved problem







Page No :\_\_\_ Date :\_\_\_\_ Full Course W.A.P. to Sort array elements in ascending and descending order. Q. W. A.P. to insert element at beginning, ending and Q. any position of array. w.A.P. to print away element in reverse Q. Order. W.A.P. to find maximum 2 minimum element q. W.A.P. to print transpose matrix. q. w.A.P. to print mirror matrix. Q. w.A.P. to add two matrix. q. w.A.P. to Swap two matrix. q. W.A.P. to print palindneme sting. Mong q. w.A.P. to Convert characters upper to lower Q. and Vice-Versa. Q. w.A.P. to Convert temperature Celsius to fahreheight and Vice-Versa. w.A.P. add two hunter bying pointer. Q. Q. W.A.P. to print 5 Stylent records wing Streture 7 Union.



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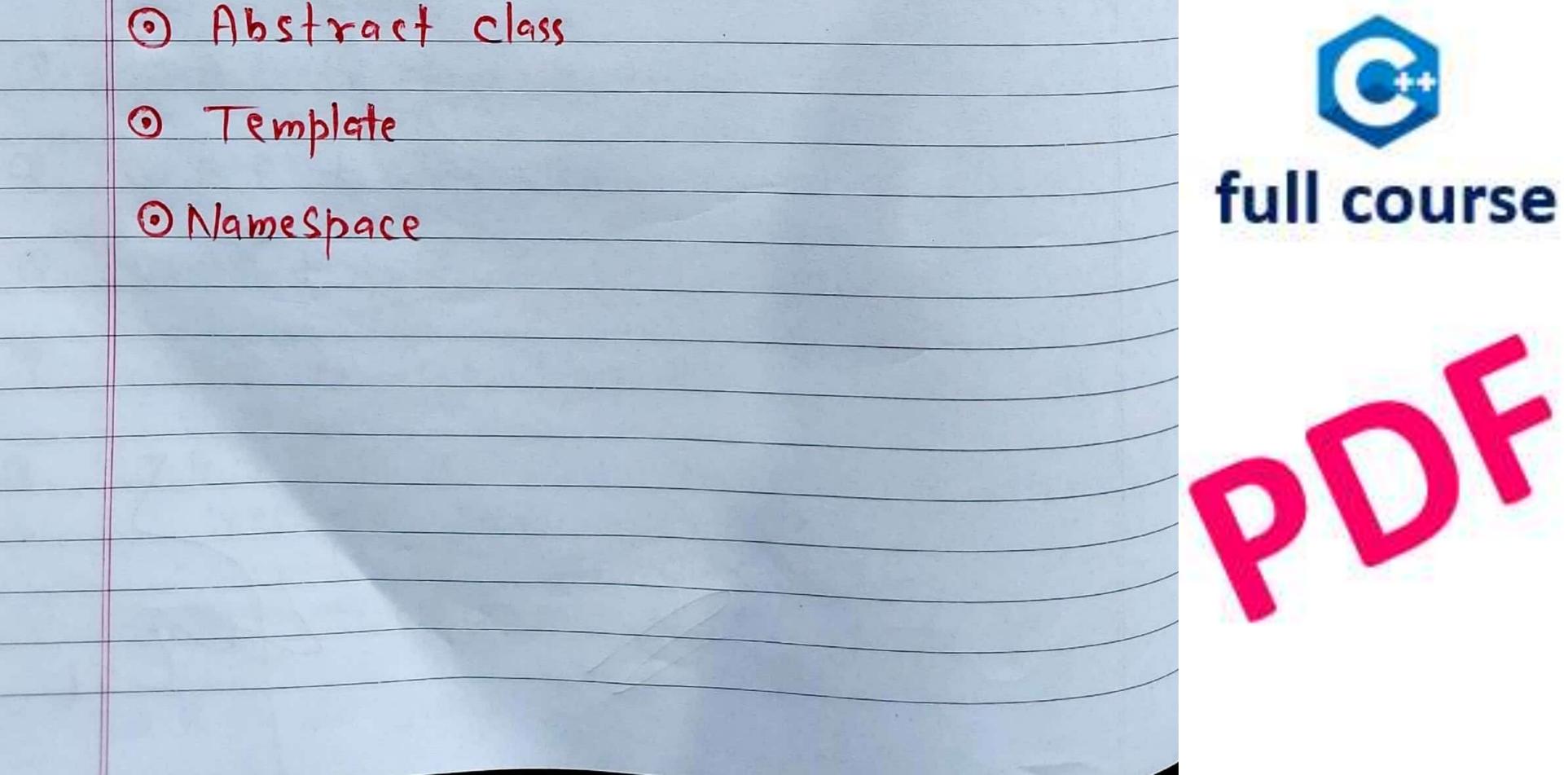
Page No :\_\_ Date :\_\_\_l\_ C++ Full Course numbers. IN. A.P. to Q. -00 Add W. A.P. to check a hymber is odd or even. Q. g. W.A.P. to make Calculator wing Switch case. W. A.P. to reverse a hymber. q. w.A.P. to Calculate Sum of Light. Q. Learn Coding W.A.P. to check a hymber is palindhome or not. W.A.P. to check a number is armshorg or not. Q. SUBSCRIBE w.A.P. to print first N hatyral hymbers. Q. W.A.P. to cheek a hymber is perfect or not. Q. w.A.P. to cheek a number is prime or not. Q. W.A.P. to find factorial of a hymber. course q. W.A.P. to print fibonacci & tribonacci Series. Q. w.A.P. to find prime hymbers between two Q. ranges. 7. Tto Calculate area of Circle, Square, rectangle and triangle. W.A.P. Q. W.A.P. to check a year is leapyear or hot. w.A.P. to Swap two hymbers. Q.

Hill C++ Full Course Page No:\_\_\_\_\_ Date:\_\_\_\_\_ Q. W.A.P. to Calculate total and average marks of 5 Subjects. w.A.P. to Calculate tax. Q. Condition <= 10000 -> "No tax" >10000 22 <= 100000 -> "10% tax" > 100000 -> "25'/. tax". Q. w.A.P. to add gvray elements. Learn Coding wiAiP. to Search any any elements with appropriate tocation. q. SUBSCRIBE Q. print pattern:ií) i) \* XX × \* \* \* \* \* XX X X \* \* \* \* \* XX Y × 10) jii 2 3 ¥ ¥ ¥ 5 6 XX X 4 X ¥ XXXXXX 8 9' 10 7 X \* \* \* \* \* \* \* \* \* \* 12 13 11 14 15



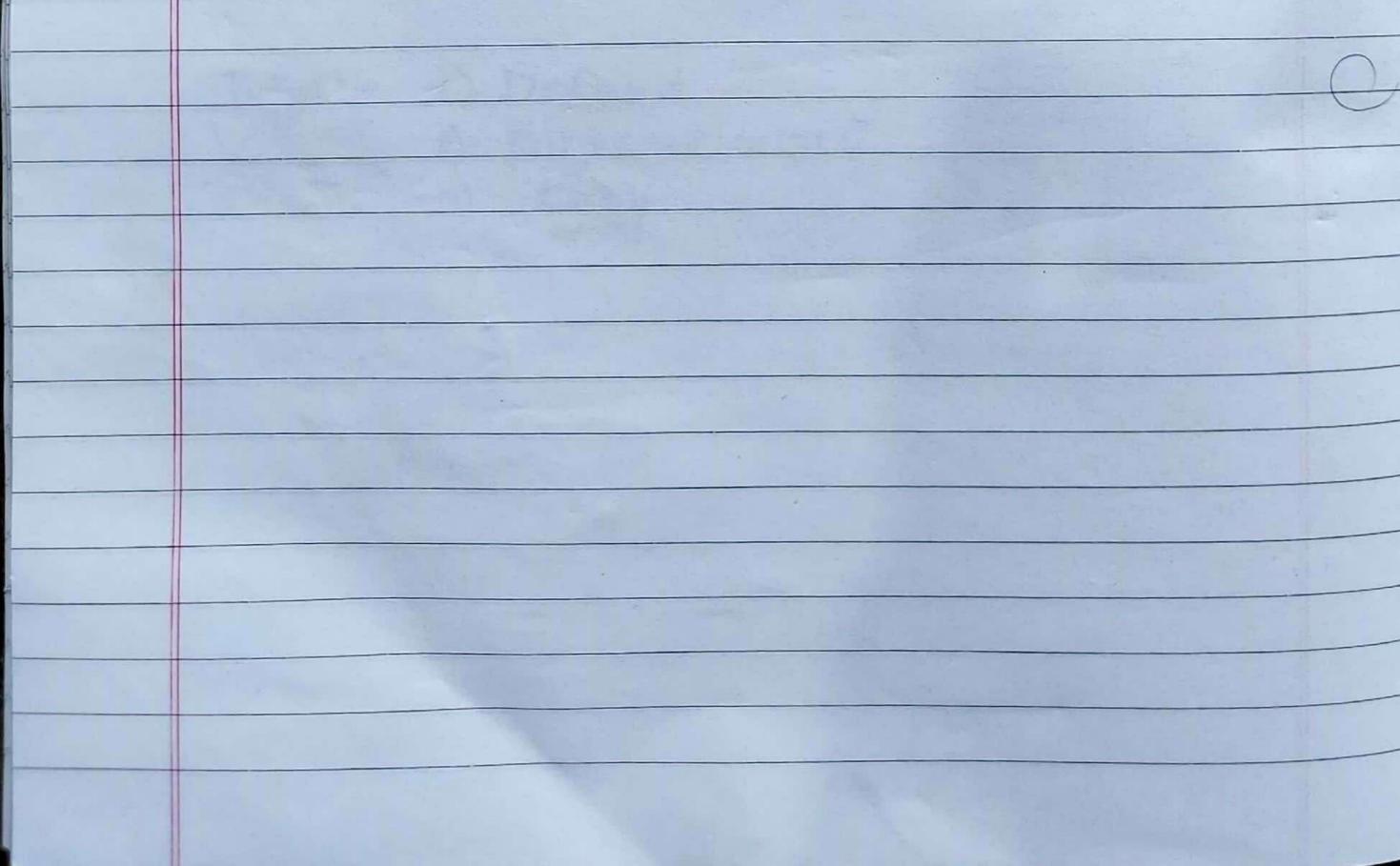


Page No : 4P Date : C++ Full Course 0 Oops Concept:-Class & Object  $\odot$  Access Specifiers
Constructor & Destructor
Friend function
Friend class O Encapsulation. Learn Coding · Abstraction O inheritance SUBSCRIBE Polymorphism 0



Page No :\_\_\_ Date:\_\_\_\_\_ C++ Full Course What is class and object? Q. Classi- Class is a user-defined Ans-> datatype: has its own data members and member functions which are used by Creating an "instance of the glass." Syntax: - Class class class Learn Coding private Il data members ! public: SUBSCRIBE 11 member fenction 2: Note: - OBy default the access specifier of class is "Private". Object: - Object is an instance of class, full course that have state and behaviour. Syntax:- class-hame object-hame; Q. W.A.P. to print message using class 7 object.

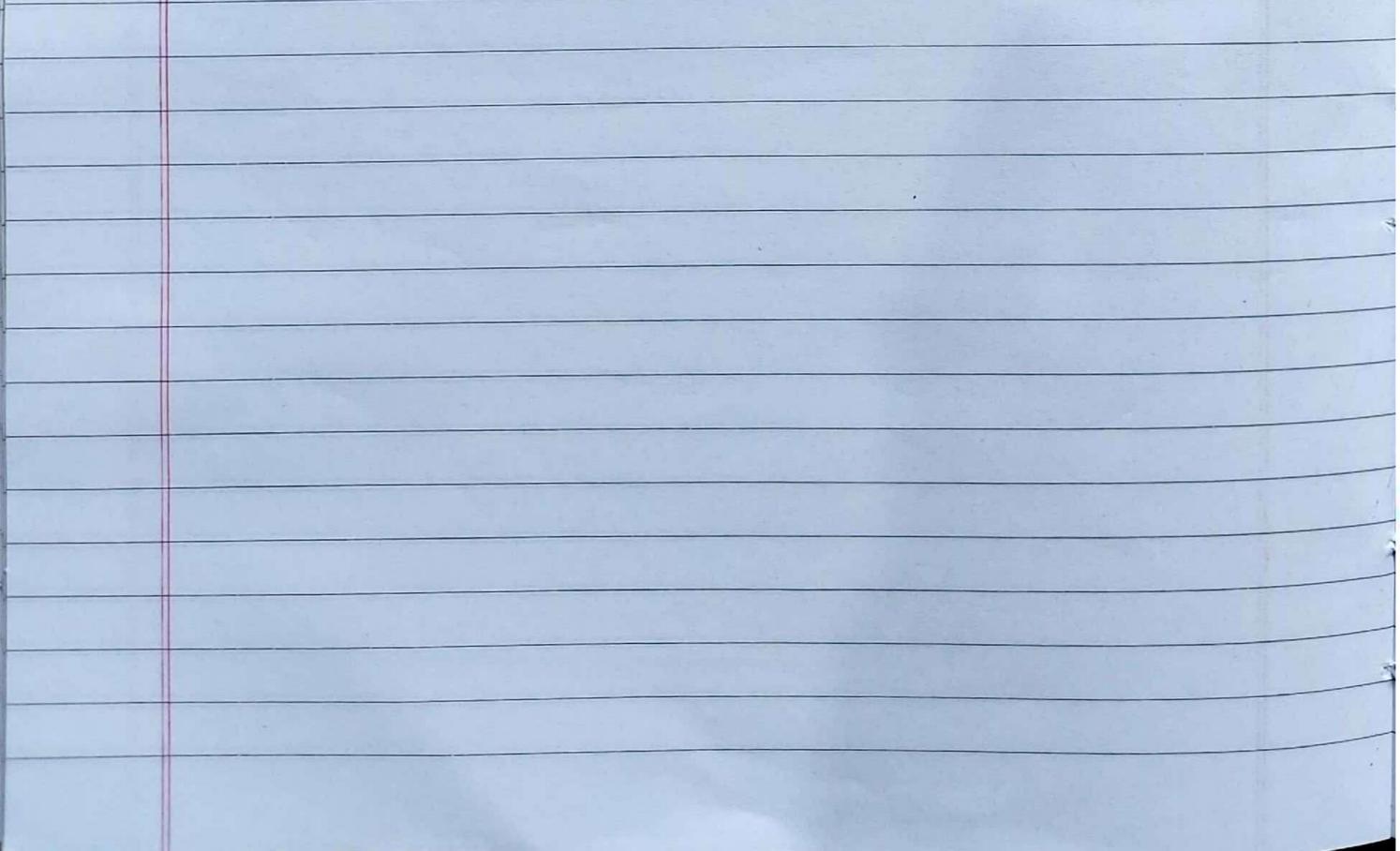
Page No :\_\_\_\_ Date :\_\_\_l\_J\_ C++ Full Course access Specifiers) of q. Accessibility 1) class itself 1) friend of class private  $\bigcirc$ Delass itself Protected  $\bigcirc$ byblic > 1) Anywhere accessible Learn Coding  $\bigcirc$ SUBSCRIBE







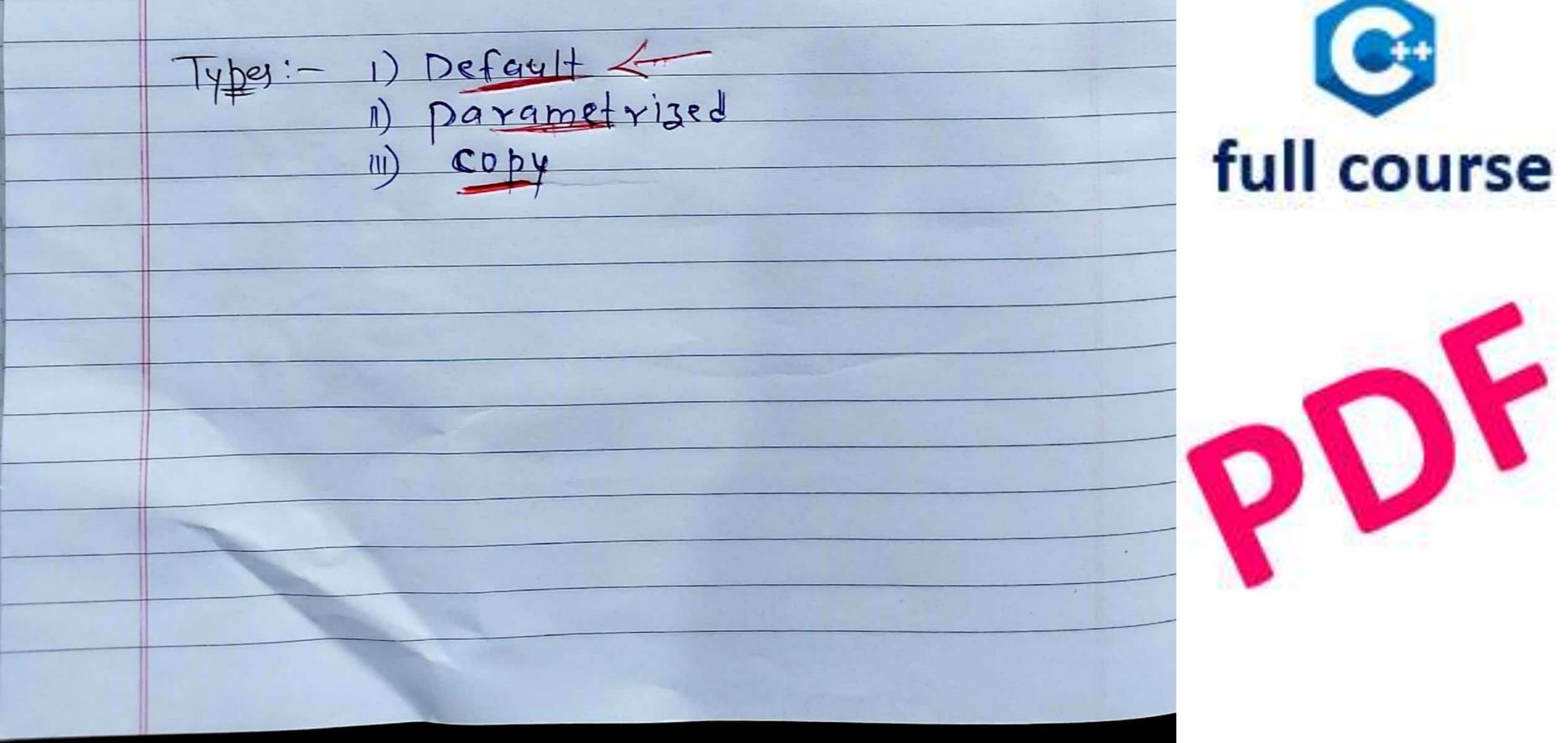
Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course q. what is destructor? Ans > Destructor is also a special type of member function that is used to deallocate the memory", allocated by the Constructor. Syntax: - clous A & public: DU Learn Coding NA() S SUBSCRIBE 2 2;







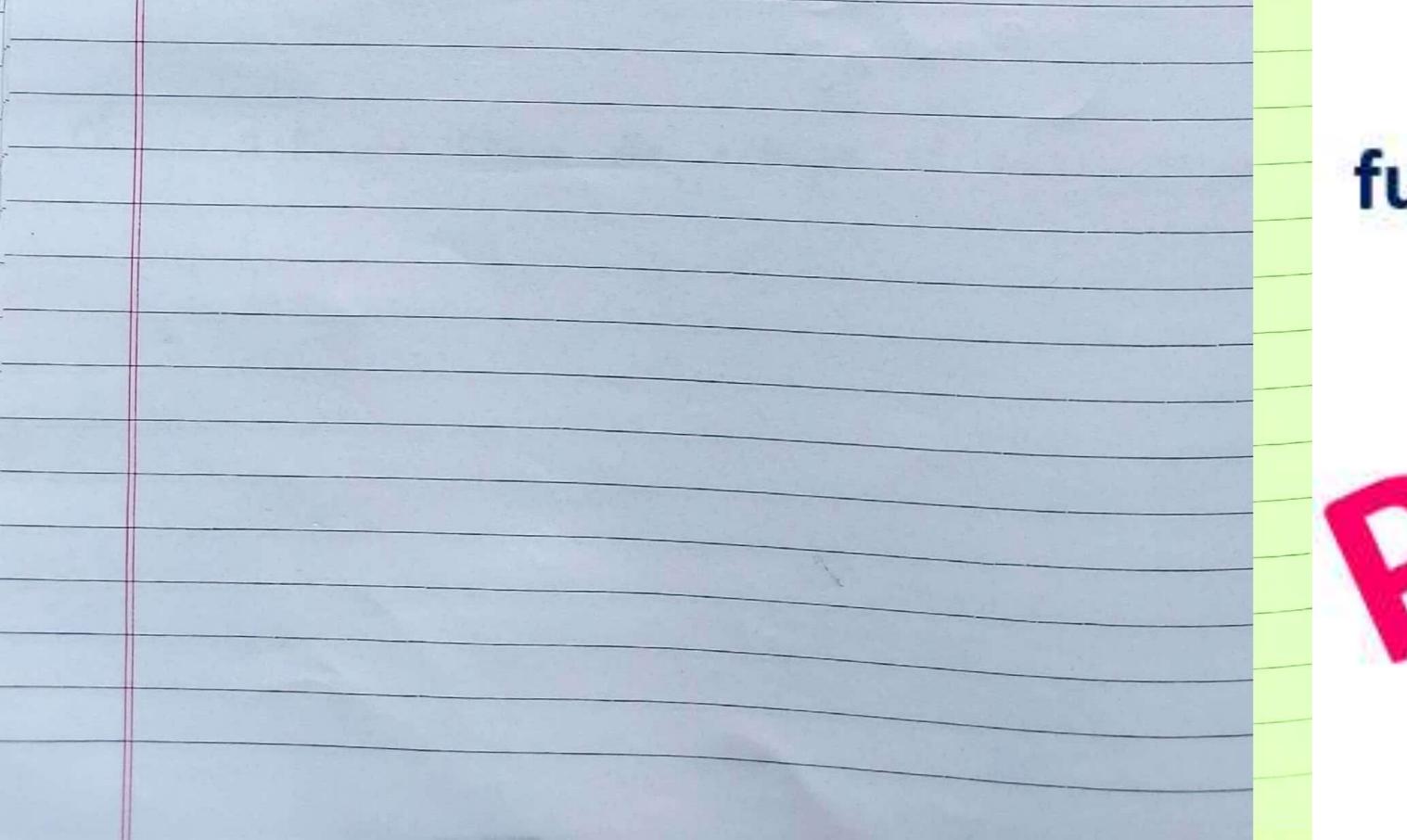
Page No :\_\_\_\_\_ Date :\_\_\_\_\_ C++ Full Course Q. What is Constructor? full explaination. Ans > Constructor is a special type of function which is automatically Called at the time of object creation. ONote: - The main purpose of Constructor is used to initialize the object. Learn Coding Syntaxi- Clays A SUBSCRIBE 2 2:



Page No :\_\_\_ Date :--- L\_J\_ C++ Full Course What is friend function? full explaination. Q. Ans Friend function is a function which is bot the member of class instead of that it can access private and protected member of class. By the print by Note: - O friend function is declared with Keyword (friend) Learn Coding OUsing friend function we can work with two different classes SUBSCRIBE members. Syntax:- friend return-type function-name (class ref); q. M. A. P. to add two, numbers using (friend function. full course

Page No :\_\_\_ Date :\_\_\_\_\_\_ C++ Full Course What is Encapsulation? full explaination. OP. Ans Encapsylation is the Concept of Dops, that Is used to wrap the Jata member and member fynction into a Single unit? Note: - () The main purpose of encapsulation 'is to Secure the data ( with Learn Coding Syntex: - Class A brivate: SUBSCRIBE Joiten member publici member function w.A.P. to show the example of encapsulation. Cf, full course

Page C++ Full Course Q. What is friend class? full explaination. Ans Jf a. class become a friend class to p Other class then it can access the all pr and protected member of that class. Note:- () friend class is declared always with friend keyword. Court A Frade Learn Coding Syntax:- friend class class-hame; SUBSCRIBE Q. Inl. A. P. to show the example of friend class



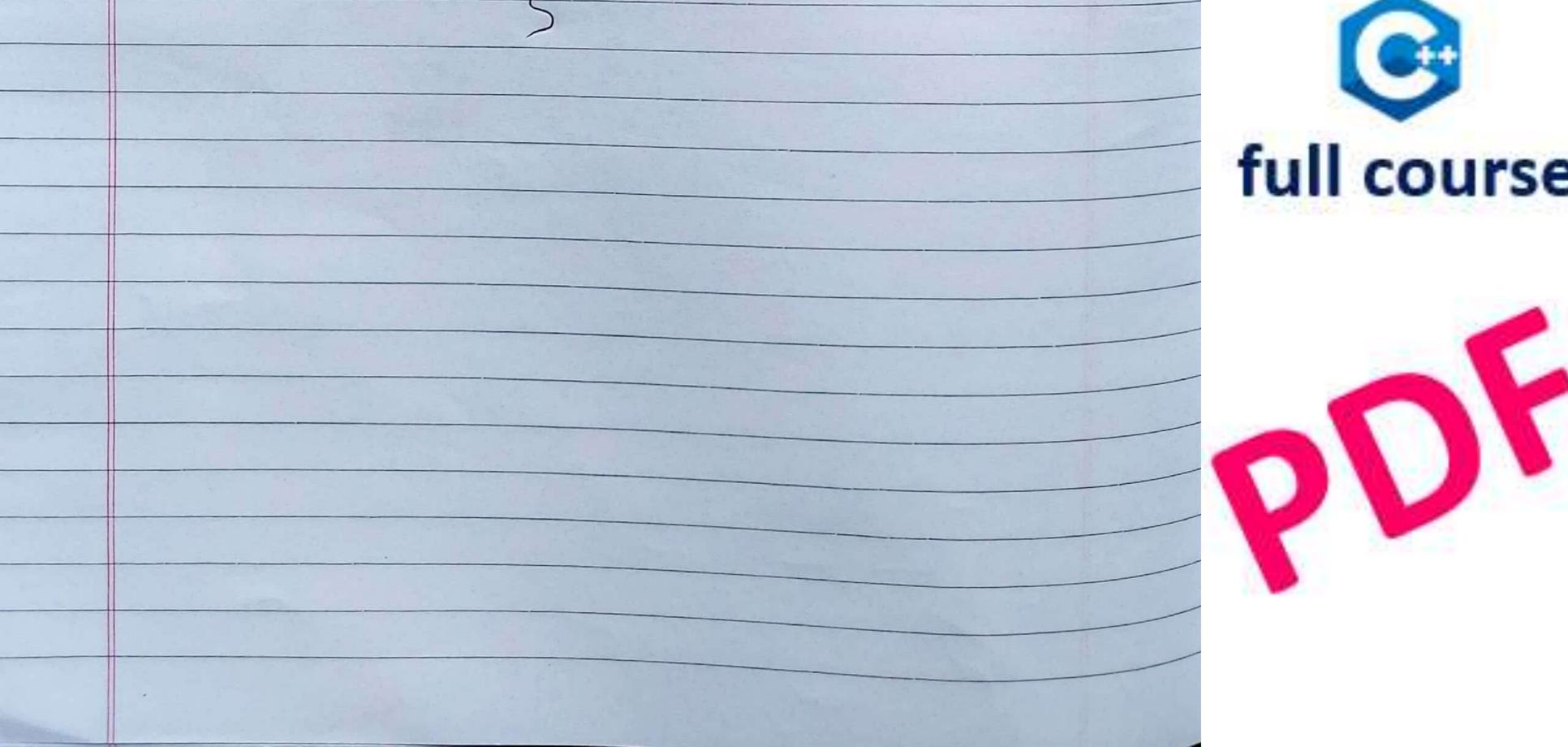




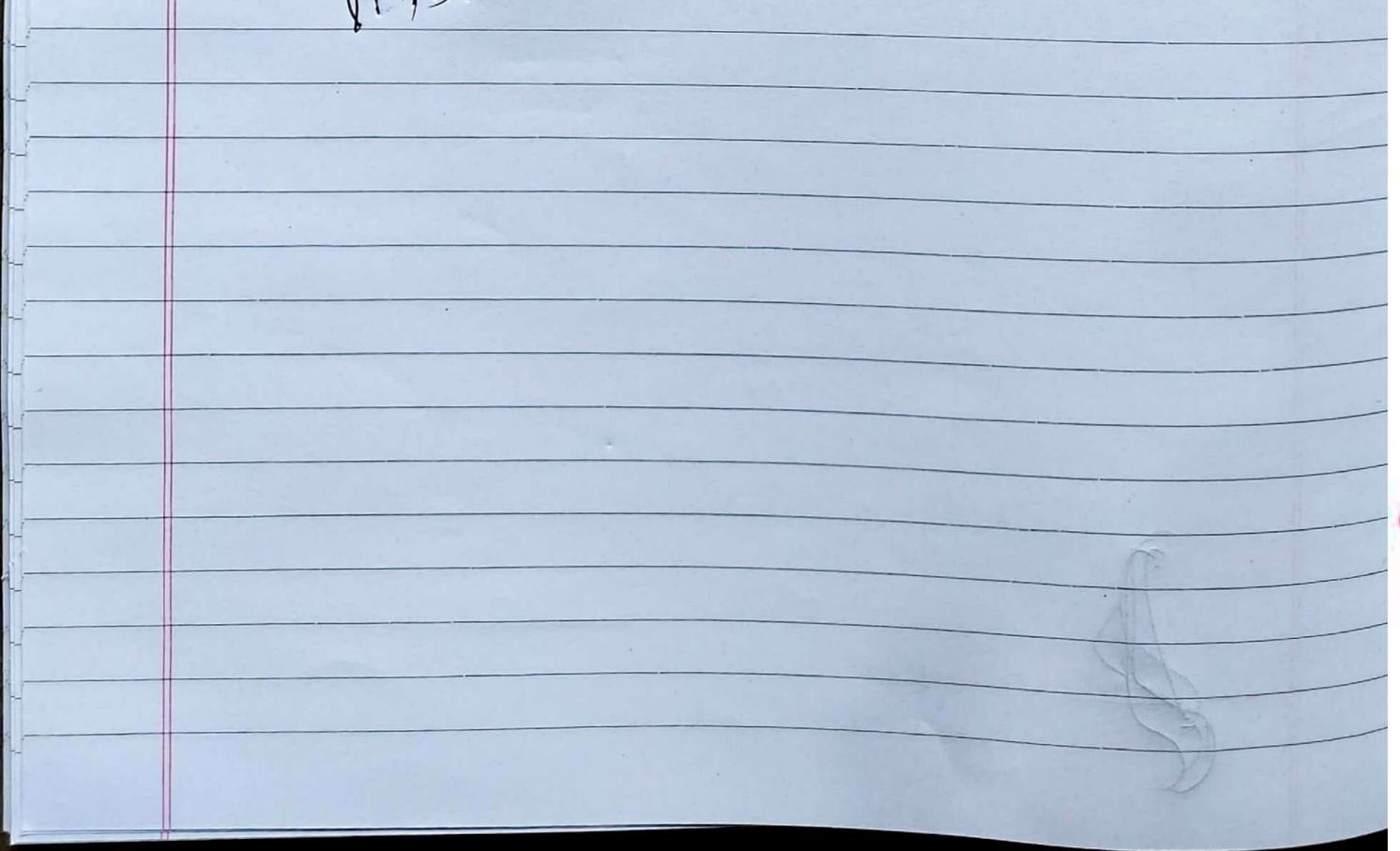
Page No :\_ Date:\_\_\_\_\_ C++ Full Course What is (abstraction? full explaination. Q. Ans Data abstraction is a technique which only necessary data is Showing the user and unnecessary, data "IS hidden. w: A: P. to show the simple example of data Q. abstraction. C) att Bank de. acient purper JAAW INT



## SUBSCRIBE



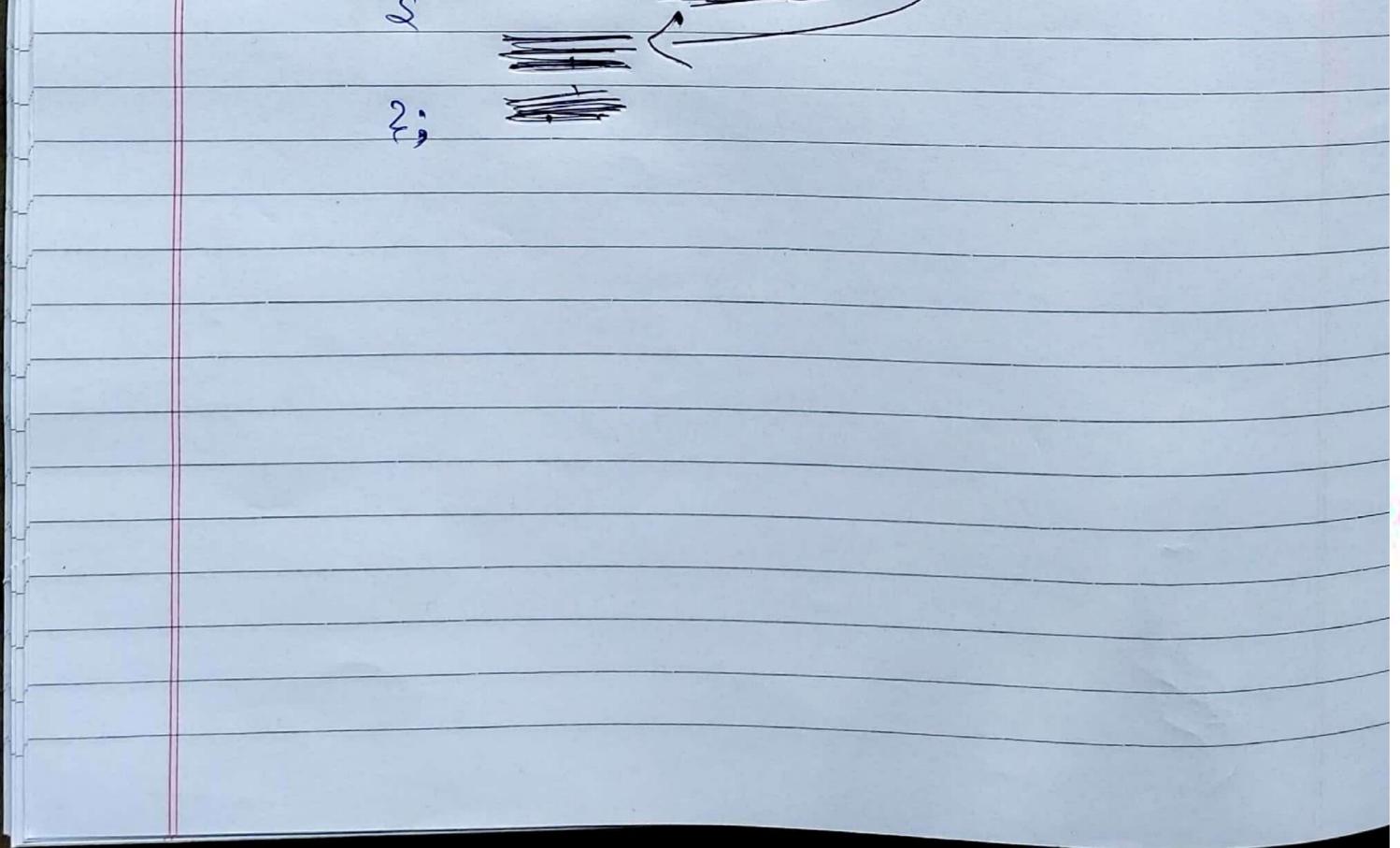
Page No :\_\_\_ Date :\_\_\_\_\_J. C++ Full Course Multi-level inheritance:-Base Synderx :-Derived 1) Clogs A S atbr Derived 2 2; Class B: public A 2 postb 2; 2; Learn Coding SUBSCRIBE class c: public B -Q-6 2; 19751







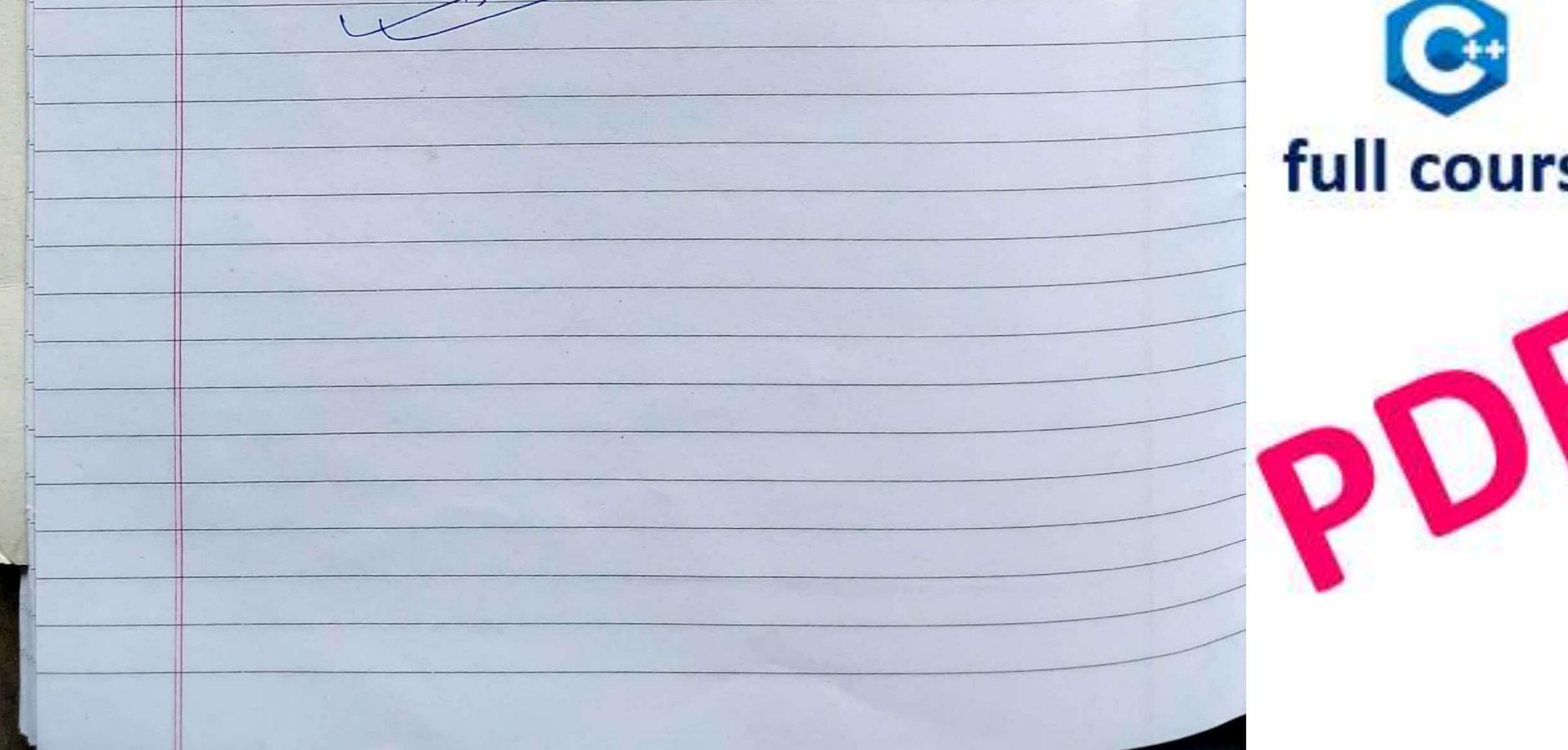
Page No :\_\_\_ P Date :\_\_\_\_\_. C++ Full course Inlbat is (inheritance?) full explaination. QP. inheritance is nothing byt when one Ans-> Iproperty of another Cloy access the cloys) is called (inhevitance) Types:-Base 5. Learn Coding D Singk/simple inhevitance :-Syntax: - Class A SUBSCRIBE Derived 100% · · / - 50% 23 IN. Class B: publiq





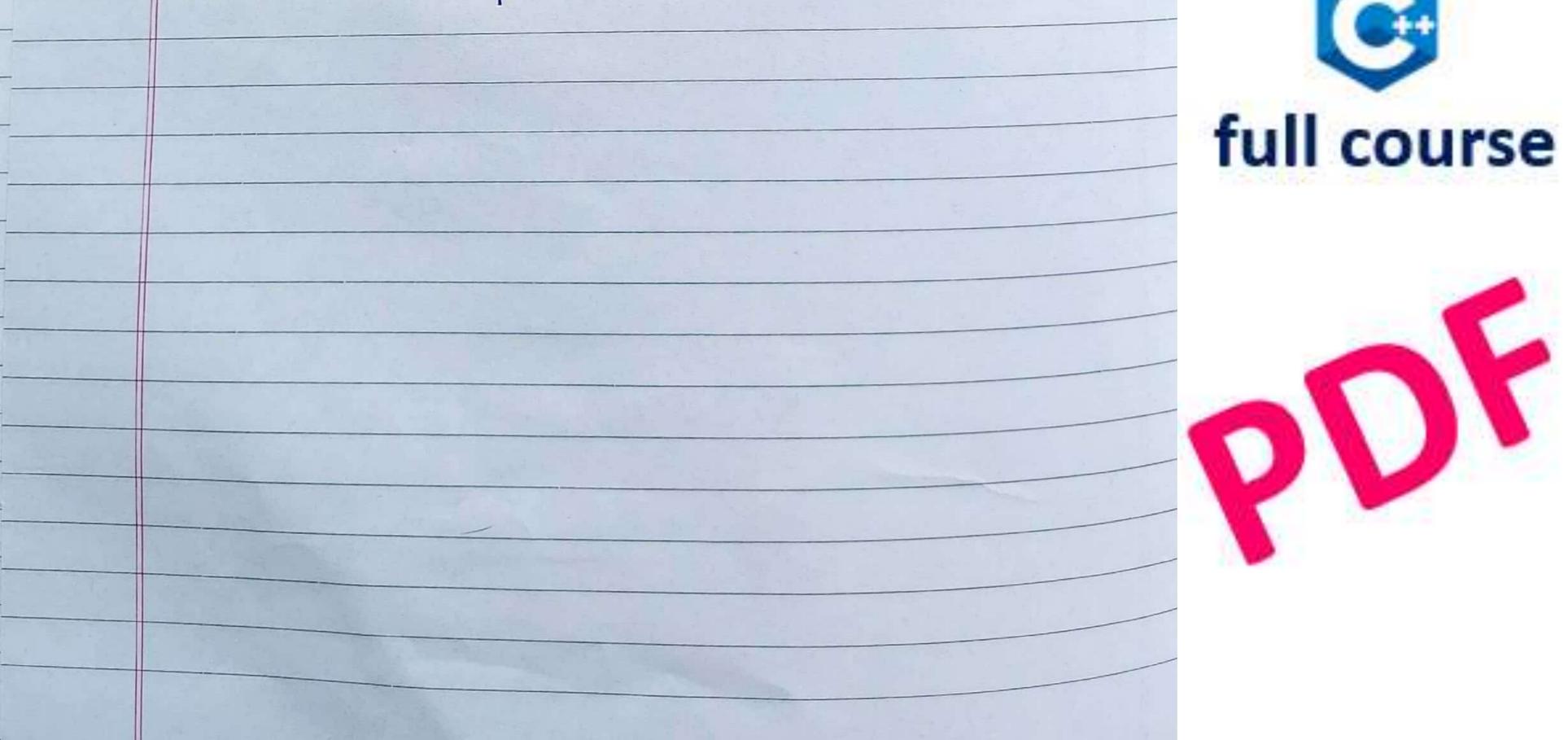


Page No :\_\_\_\_ Date :--- L\_J\_ C++ Full Course Inlhat is multiple inheritance? Q. Bose 2 Berez Bors Ans> VVV Derived Synterx :-Class & Closs B. Closs A Learn Codin Q-5; atbi 3, 5025 3; 2; SUBSCRIB Class D: public A, public B, public C S public A, public B, public C 97.57 9===5 0-6 4.6 0, 30



Page No :\_ Date :\_\_\_\_\_ C++ Full Course Q. lathat is polymorphism? full explaination. 1ths> Polymorphism = Poly + Morphism many Form many form Learn Coding Polymorphism is the greek word whose different behaviour". SUBSCRIBE Son 80 void Derion Ross Friend. ( Person - Frent Void person friend Boss full course Void Derson Teerta ypes :-> Compile time polymorphism (Function > Runtime polymorphism "Function Overloading > Runtime polymorphism "Function Overright

Page No :\_\_\_ Date :--- L\_ J\_\_\_ C++ Full Course Inlbat is hierarchical inheritance? q. Base 17ns-> Devived 2) Derived Devived 1) Systax !-Sofoss A Learn Coding att 2; 4 Closs D: public A SUBSCRIBE closs c: public A Class B: public H S OHB 2: OFB Orth. ath arb 2; 2'



Page No: Date :\_\_\_ C++ Full Course lathet is function overloading? Q. a class contains more than one Any> 1 albenever method with Seine hame lifferent types of parameter Called function Ovybading. ONote: - 1)This polymorphism exists at the time of compilation. Learn Coding 1) Compilitine polym-uphism is also know Centy binding or static as SUBSCRIBE Dolymorphism. - Class Syntax:public: Void addin full course Void adding an) (int, q, flogt b) sid all 2; IN. A.P. to show the example of function Overloging ? Q.

C++ Full Course Rhat is function overriding? Q, Ans-> lalbenever we writing method in (base) on I derived classes ( in Such g way that function name parameter must be same Called function overiding. Note:-1) This polymorphism Exists at the time of execution of program is called runtime Johnsphism. Learn Coding D Runtime polymouphism is also known as late finzing or Lynamic polymorphism. SUBSCRIBE function Overriding problem: - Syntax!-In this Case we can't A Call the base class function Void add() full course Wing the devived class object is known as function Oversiting problem. class B public W.A.P. to show the example q. of function Overbading. Vold ALIARIA

Page No :\_ Date :\_\_\_\_ C++ Full Course What is abstract class? full explaination. Q. Abstract closes are such closes that you Ans-> one defined to inherit only by other classes. The purpose of abstract classes is to provide a Shreture to other classes which you can inherit. Note: - 1) We can't create object for abstract Learn Coding Clays: 1) A class which contain at least one pure Virtuel function-o; Called abstract SUBSCRIBE Cloys. Syntax:-1 = refun type (function - hame () = 0; Virtual full course

Page No :\_\_\_\_ Date :--- l - J ---C++ Full Course What is template? full explaination. Q. Template is the frame which defines 15 Hns-> actual meaning in a C+t programming 1 template Upurpose of The main is to "it accept any type of time of program pexecution. the at. Can use template in C++ by two verys:-AR Learn Coding -unction template. 20 SUBSCRIBE template. C 043 n) 1) Function template: - Function template is also know of generic dimetion. A norm function works Only one type of Value at a time. but "function tempt works with Lifferent - Lifferent type at full course a time. Syntax: - template < class (type) return-type, function-hame (parameters-list) 11 Code; IN. A.P. to show the example of function template? q.

Page No :\_\_ Date :...L C++ Full Course 2) Fune class template :- class template is also known as generic class 2) The parameters. Syptex: - (template < class (type)) Class class-hame Learn Coding -11 body 2; SUBSCRIBE Q. w.A.P. to show the example of class template?









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