* <u>Data Stemetwees and Algonithms</u> * (C++). Basics to Advance

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* Data Structure and Algorithms * Date 27/01/2023 * Programming Fundamentali: > Thought Process to solve a Problem: * Understand the problem. * look out for input entput values. find out for bust approach is algorithm to solve tenat particular problem. * Algorithm: steps involved in accomplishing a task known to be algorithm. High Level Rough solution Solution Problem weith the help (Inside our Language nead) of Flourcharts (southce'de) on Pseudocodel. conveyting our (After finding the nough code way of approach iento HLL 100 either c+t, unlide our nund Java, etc. dunmy on swugh solution wen-fou - endly and day run with language) ateeast 3/4 einput) Machine under-- standing language i.e in the folian of 0/1-(Binary) numbers Between HLL and Mathine understanding language there is an intumediates known Complete (it convert HII iento ke Machine under lang. i.e form of of buauxe machine mon't able to understand HIL can only 0 and 1 so complier converts form of understand. o and 1

*. Weing computer to solve a problem: Consider au example to eneck menther a muniber ne prime Periene nois are those are divisible by 2 and the no itself. let check? 13/. 1 = 0 so 13 in divicible by 13 and 1 13% 2 = 1 at seem. is o . T. it is prime 13% 3= 1 13%4=1 131.5=3 13-1.13 = 0 * But the approach il mannualy which computer is unable to unducetand it. To make computer some the publish wellen the me have quater number, their in higuin-- ement of HLL. It in graphical supresentation of an algorithm. Flourmants: > Knowen as terminator it indicates the (stant/end start and end of any algo. input output -> known as imput foutput block o indicating in displaying input on output value. - knowen at person blocks menich could consists of any calculation or initalization Decision Making block which comists of any condition which have two recelling values i.e true salse. outedme No/False Awronel Flours of execution of an Algo. : connector indicates the function















