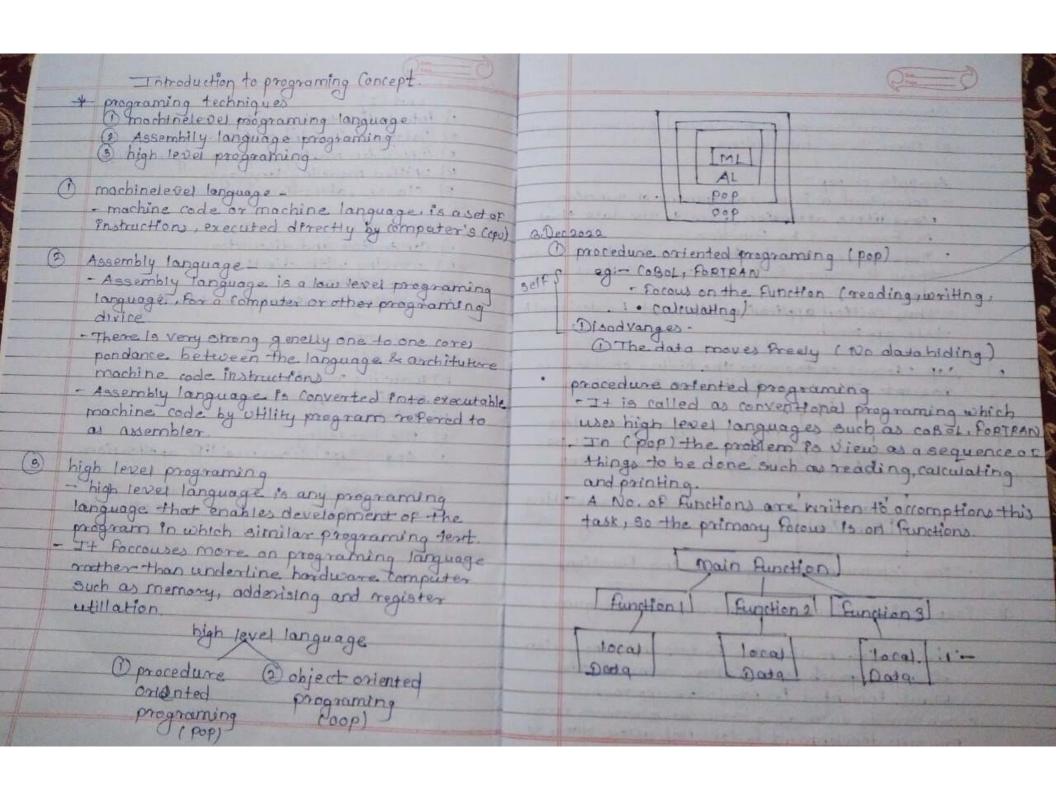
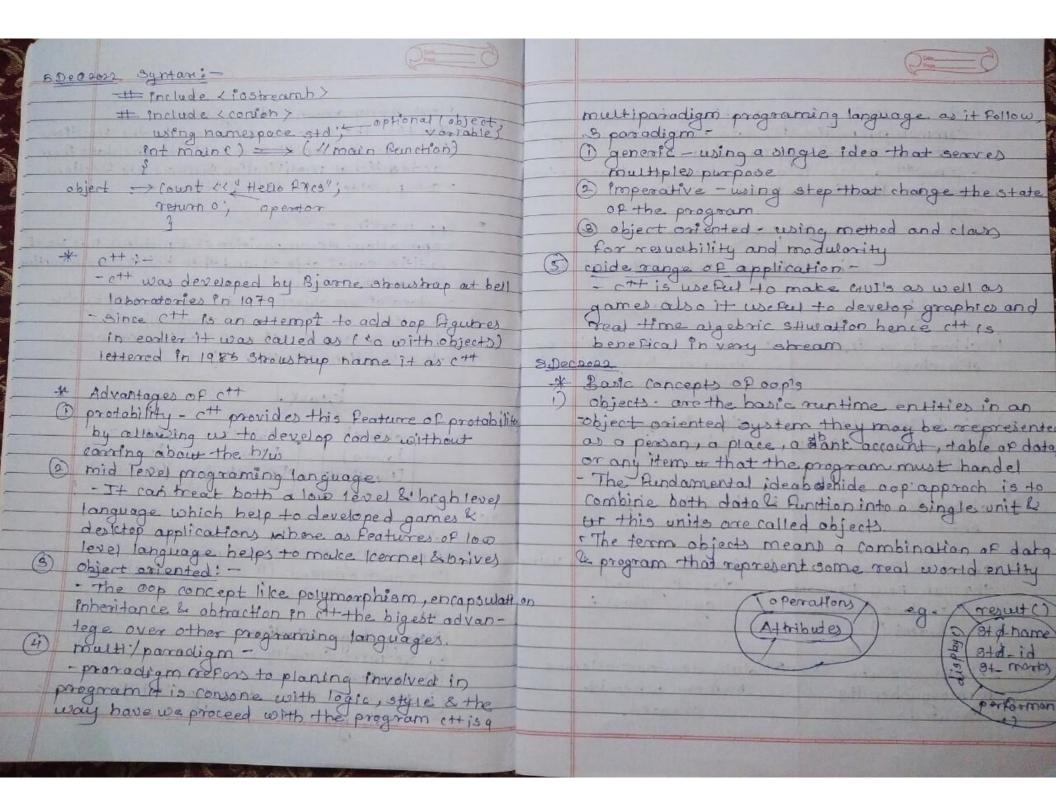
2Dec2022 unit (I) introduction to programing concept 2) Datatypes , Datainput, con output, operators Dissusion making, loops, arroys, strings 4) unified modeling languages 5) classes, abtraction, and encapusation Unit (III) The same of the same 1) constructor and distructors 2) working with objects 3) polymorphism 4) modeling relationship in classidiagram: Unit (III) Inheritance a) modeling relationship 3) runtime polymorphism 4) pointers 5) file handeling a) Aplying copp) 301ves real life application. books - Cobject oriented programing with ctt Author: - BalogurusamyE8th edition MG CHOOW HILL



Disadvantages: -DIT does not model real world problem very well Plow freely around the system. 2) There is no data hiding. - It ties the data more colsely to the A that operates on it and protects the da Analysis of popaccidentional modification from outside Ru - concentration is on development of Function, - It provides data hiding Pitures. Nory little attention given to the data that is been used by function. opp working -- Data moves freely betweens. Functions where - opp allow decomposition of a problem in there is chance for the potridier, to hack the entities called objects and then builts date around this objects - thus critical applications does not be designed by - data of an object can be access only by this approach. Runctions accostated with that object - however the function of 1 object can acc cop - forous on the date the hiding of data is the function of other object present - The task to divided into objects. egi-obj-student obj obj Data - Roll No, object 1 Object 2 object 3 Name, DOB Data [ Data] Data Function A Aunction Function - calculating [ Function] the 7. Avg Specsess. Advantages -- They communicate by the using functions 1 protability ( mid level programing language of application object oriented ( wide range of applications) (oop) object oriented programing (paradigam) -The major motivating factors in a invention of oop approch to to semove some of the (1) No garbage Collection: (2) No more Security Flaus. incounted in producto approch. - cop treads data as a critical elements in a (5) Complex program development & does not allow dat a to (i) there are some data type lack of algebra days type.



| classes. It is group of objects that share  Common properties for data part & come program  part are collectively called a class.  In Ctt a class is a new destatype that contain  member functions & member variables  abjects class  abjects class templete from which  of a class templete from which  object in real world a) class is a blue print or  entity are pen, laptop similar objects  a) object is a physical a) class is a group of  entity are pen, laptop similar objects  a) object is a physical a) class is a logical  entity  a) object is created a) class is declared by using  entity  a) object a charted and class is declared by using  entity  a) object allocate is olars does not allocate  memory when it's memory when it  created areas to memory when it | 2) Data abtraction:  Data abtraction refers to the act of representing essential fitures without including the background details or exploitions only important thicks to the agi - abtraction shows only important thicks to the agi - which he ride a bile we only know the some features about hile which are use for rideing, but internal details of functionally is hidin (not known) by us  4) Data encapsulation:  The wapping of data & functions into a singule unit (stall class) is known as encapsulation.  The data is not associble to outside world & only those functions which are wrapped in the class and access it.  This functions provide interface between the object data & program.  22 - class: student name, strall, st.id.  Runctions: result (), enroll (), performances the process by which objects of I class acquire the process by which objects of I class acquire the process of another class, here inheritance provides the idea of rewebality this means that the can add additional features to an exiting (las) without modifing it.  This is possible by desiging a new dass which will have compiled features of both the classes |
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