JADAVPUR UNIVERSITY ENGINEERING FACULTY B.COMP.SC.ENGG-SECOND YEAR, SESSION: 2017 - 2018

Object Oriented Programming using C++ Assignment I

Submission Deadline:

Viser may give the time value in 24-hour format. Viser may give the time value in AMPM format Display the time in AMPM format. Viser may like to add minute with a time value. Design a COMPLEX class, which will behave like normal integer with respect to addition, subtraction, accepting the value and displaying the value. Design a class for the following scenario: An item list contains item code, name, rate, and quantity for several items. Whenever a new item is added in the list uniqueness of item code is to be checked. Time to time rate of the items may change. Whenever an item is issued or received existence of the item is checked and quantity is updated. In case of issue, availability of quantity is also to be checked. Whenever an item is issued or received existence of the item is checked and quantity is updated. In case of issue, availability of quantity available for an item Design a STUDENT class to store roll, name, course, admission date and marks in 5 subjects. Provide methods corresponding to admission date and receiving marks, preparing mark sheet. Support must be there to show the number of students who have taken admission. Design an ARRAY class with the following features: a) Array object may be declared for a specific size and a value for initializing all the elements. If this it is to be assumed as a 0. b) An array object may be declared and initialized with another array (not the object, c) An array object may be declared and initialized with another array (not the object, standard array as in C language). Let a and b are two objects: i a+b will add corresponding elements. ii. a-b will do the assignment. iii. all will return the ith element of the object. iv a*5 or 5*a will multiply the element with 5. Design a STRING class, which will have the initialization facility similar to array class. Provide support for Assignin	1	Design a class TIME which stores hour, minute and second. The class should have the methods to support the following:
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8	Design a TOLLTAX class to store the number of cars that crossed the bridge and total amount collected. It must support the following activities. • Receiving toll. • Display number of cars that crossed the bridge. • Display the amount of toll collected.
9	Design a BALANCE class with account number, balance and date of last update. Consider a TRANSACTION class with account number, date of transaction, amount and transaction type. If it is a withdrawal check whether the amount is available or not. Transaction object will make necessary update in the BALANCE class.
10	In a bank two types of accounts are there savings and current. For savings account a minimum deposit of Rs. 500 are to be kept. In current account overdraft up to Rs. 20,000 is allowed. Each transaction is noted. Design and implement the necessary classes.