OOPS With Java Assignment

Date:- 21/02/2024
Deadline:- 24/02/2024 (5 PM) STRICTLY

1.
   a. Write a Java Program to find a factorial value of the given number using the user-defined package "factorial" and use the pre-defined method "fact" of the package in your program to compute factorial of the input received from the console.

   b. Write a program in java having an interface called "Address" with two methods "getAddress" and "setAddress". The "Address" interface is implemented by three concrete classes named "HomeAddress", "OfficeAddress", and "SchoolAddress". Use dynamic method dispatch concept to override the above mentioned methods and display the address of home, office, and school accordingly.

2. Implement a class "CPU" having private data members "manufacturer" of String data type & "price" of double data type, and two inner classes "Processor" and "RAM". "Processor" class has private data members "numcores" of int data type & "manufacturer" of String data type, and private methods "getCache" and "setCache". "RAM" class has private data members "memory" of double data type & "manufacturer" of String data type, and private methods "getClockSpeed" and "setClockSpeed". Finally, implement a driver class "Main" to create a "CPU" object and display all the details of that object in the user console.

Instructions:

1. You need to work out the solutions on your copy.
2. Next, take screenshots of the solutions and make a Pdf file.
3. Finally, upload the pdf file and upload onto google classroom.