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| SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT ,NAGPUR-440013  IV SEMESTER B.E.  SUBJECT: Object Oriented Programming  Assignment No. 1  (Date of Submission on or before 01/02/2020) |

Date: 24/01/2020

1. Write a program in java that reads a file having 20 random numbers. Check which numbers are odd and which numbers are even. Display the numbers on console in groups of even and odd numbers.
2. Write a program in java that reads a file having empid, name and month of joining. Group the employees as per their month of joining and calculate how many employees joined the company in which month. Display the data on screen.
3. Write a java program that accepts vehicle name and vehicle registration number (ex MH-31 AZ-8207) and display the details on screen. Throw user defined exception:
   1. If no valid state is found(Valid states are MH, MP, AP, DL, GJ)
   2. If registration number is not in the standard format (CC-99 CC-9999, C stands for character and 9 stands for number)
4. Write a program that accepts customer name and units of electricity consumed. Use a counter to generate Bill No. the following are the conditions are given for bill calculation.
   1. For first 100 units bill is 500
   2. For next 500 units per unit charge is 2.36
   3. For next 2000 units per unit charge is 3.5
   4. For units above 2000 per unit charge is 5.09
5. Create a class student with data members as name and roll. Create an interface test with methods void get TestlMarks(int) and void get Test2Marks(int). Create another interface Assignment with void get AssignmentlMarks(int) and void get Assignment2Marks(int). Create a Class internal which is derived from class student and implements test and assignment, write proper display() to display test and internal marks along with total internal marks. Create object of class internal and use all methods