CDAC Mumbai PG-DAC MARCH 24 Assignment No- 4

1. Build a class Student which contains details about the Student and compile and run its instance.

import java.util.Scanner;

class Student{

    String sname;

    int s\_roll\_no;

    float marks;

    String e\_mail;

    Scanner sc=new Scanner(System.in);

    void acceptRecord(){

    System.out.println("Enter the Name  :");

    this.sname=sc.next();

    System.out.println("Enter the RollNo  :");

    this.s\_roll\_no=sc.nextInt();

    System.out.println("Enter the Marks  :");

    this.marks=sc.nextFloat();

    System.out.println("Enter the Mail  :");

    this.e\_mail=sc.next();

    }

    void printRecord(){

        System.out.printf("%s   %d  %.2f   %s",this.sname,this.s\_roll\_no,this.marks,this.e\_mail);

    }

}

class Principal

{

    public static void main(String args[]){

        Student std=new Student();

        std.acceptRecord();

        std.printRecord();

    }

}

2)Write a Vehicle class with overloaded methods that have a different number of parameters. Demonstrate calling these overloaded methods with various numbers of arguments.

class Vehicle{

   public static void vehicleDetails(String vname ,String vmodel){

            System.out.printf("%s   %s  \n",vname,vmodel);

   }

    public static void vehicleDetails(String vname ,float price){

            System.out.printf("%s   %.2f \n",vname, price);

   }

    public static void vehicleDetails(String color ){

            System.out.printf("%s   ",color);

   }

   /\*public static void vehicleDetails(String vname,String color ){

            System.out.printf("%s  %s",vname,color);

            (string,string) already defined in class vehicle

   }

   \*/

   public static void main(String args[]){

     Vehicle.vehicleDetails("Car","Maruti-TATA-25Z");

     Vehicle.vehicleDetails("Bus",2000.0f);

     Vehicle.vehicleDetails("BLACK");

      Vehicle.vehicleDetails("RED","Bike");

   }

//static methods===> by using class name

}

3)Create a class Employee with multiple overloaded methods that have different parameter types (e.g., int, double, String). Demonstrate calling each overloaded method with appropriate arguments.

class Employees

{

   public void employeeDetails(String name ,int emp\_id){

    System.out.printf("%s   %d\n ",name,emp\_id);

   }

   public void employeeDetails(int emp\_id){

    System.out.printf("%d  \n", emp\_id);

   }

   public void employeeDetails(int emp\_id, double salary){

    System.out.printf("%d      %.2f\n ",emp\_id,salary);

   }

    public void employeeDetails(String name, double salary){

    System.out.printf("%s      %.2f\n ",name,salary);

   }

}

class Emp{

    public static void main(String[] args){

        Employees employ=new Employees();

        employ.employeeDetails("Manasi",101);

        employ.employeeDetails(102);

        employ.employeeDetails(103,25000.0);

        employ.employeeDetails("Pooja",45000.0);

     // non static methods===> by instance creation

    }

}