## **ASSIGNMENT 4**

## Week 3 – Part –B

1.Program to define a class Item containing code and price. Accept this data for five objects using array of objects. Display code ,price in tabular form and also display total price of all items.

```
Source Code:
import java.util.Scanner;
class Item
{
        int price, code;
       Item(int code,int price)
       {
               this.code=code;
               this.price=price;
        }
       public void display()
       {
               System.out.println(code+"\t"+price);
       }
}
class ItemMain
{
       public static void main(String args[])
       {
               int p,c,total=0;
               Scanner sc=new Scanner(System.in);
```

2.Program to define class Tender containing data members cost and company name.Accept data for five objects and display company name for which cost is minimum.

```
Source Code:
import java.io.*;
class Tender
       int cost;
       String company_name;
       Tender(int cost,String company_name)
       {
              this.cost=cost;
              this.company_name=company_name;
       }
       public void display()
       {
              System.out.println(company_name);
       }
}
class TenderMain
{
       public static void main(String args[])throws IOException
              int c,min=999999,pos=0;
              String name;
              BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
              Tender ob[]=new Tender[5];
              for(int i=0; i<5; i++)
```

```
{
                      System.out.println("Enter Cost");
                      c=Integer.parseInt(br.readLine());
                      System.out.println("Enter Company Name");
                      name=br.readLine();
                      ob[i]=new Tender(c,name);
               }
              for(int i=0;i<5;i++)
              {
                      if(ob[i].cost<min)</pre>
                      {
                             min=ob[i].cost;
                             pos=i;
                      }
               }
              System.out.print("Company with minimum cost is ");
              ob[pos].display();
       }
}
```

3.Program to define a class employee with data members empid,name and salary.Accept data for 5 objects and print it.

```
Source Code:
import java.io.*;
class Employee
       int empid;
       String name;
       double salary;
       Employee(int empid,String name,double salary)
       {
              this.empid=empid;
              this.name=name;
              this.salary=salary;
       public void display()
              System.out.println(empid+"\t"+name+"\t"+salary);
       }
}
class EmployeeMain
{
       public static void main(String args[])throws IOException
              int id;
              String name;
              double sal;
              BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
              Employee ob[]=new Employee[5];
              for(int i=0; i<5; i++)
              {
                     System.out.println("Enter EmpId");
                     id=Integer.parseInt(br.readLine());
                     System.out.println("Enter Name");
```

## 4. Define a class Circle which contains

Two private instance variables :radius (of type double) and color (of type string),

Initialize the variables radius and color with default value of 1.0 and "red",respectively using default constructor.

Include a second constructor that will use the default value for color and sets the radius to the value passed as parameter.

Two public methods: getRadius() and getArea() for returning the radius and area of the circle.

Invoke the above methods and constructors in the main.

```
Source Code:
import java.io.*;
class Circle
{
        private double radius;
       private String color;
       Circle()
              radius=1.0;
              color="Red";
       Circle(double radius)
              this.radius=radius;
              color="Red";
       public double getRadius()
              return radius;
       public double getArea()
              return (3.14*radius*radius);
}
class CircleMain
```

```
public static void main(String args[])throws IOException
{
    double rad,area;

    BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
    Circle ob1=new Circle();
    Circle ob2=new Circle(7.0);
    rad=ob1.getRadius();
    area=ob1.getArea();
    System.out.println("Radius +"rad+" Area="+area);
    rad=ob2.getRadius();
    area=ob2.getArea();
    System.out.println("Radius +"rad+" Area="+area);
}
```