Assignment 8

1) Write a program to create a two packages employeepackage and departmentpackage and under employeepackage create classes like Employee, Manager, Admin Under departmentpackage create class by name Department and Project.

Employee class-

```
package employeepackage;


public class Employee
{
  public int empid;
  private String empname;
  private float empsalary;


  Employee(int empid,String empname,float empsalary)
  {
        this.empid = empid;
        this.empname = empname;
        this.empsalary = empsalary;
  }
```

```java
void display()
{
        System.out.println("employee id: "+empid);

        System.out.println("employee name: "+empname);

        System.out.println("employee salary: "+empsalary);
}
}
```

Manager class-

```java
package employeepackage;


public class Manager
{
  public int managerid;

  private String managername;

  public int managerage;

  private float managersalary;

  Manager(int managerid,String managername,int managerage,float managersalary)
  {
        this.managerid = managerid;

        this.managername = managername;

        this.managerage = managerage;

        this.managersalary = managersalary;
```

```java
 }


void display()

{

        System.out.println("manager id: "+managerid);

        System.out.println("manager name: "+managername);

        System.out.println("manager age: "+managerage);

        System.out.println("manager salary: "+managersalary);

}
}
```

Departement class-

```java
package departementpackage;


import employeepackage.Admin;


public class Departement

{

 public int deptID;

 private String Deptname;

 public Departement(int deptID,String Deptname)

 {

   this.deptID = deptID;
```

```java
        this.Deptname = Deptname;

}


public void display()

{

        System.out.println("departement id: "+deptID);

        System.out.println("departement name: "+Deptname);

}
}
```

Project class-

```java
package departementpackage;


import employeepackage.Admin;


public class Project1

{

        String projecttype;

        int projectcount;

        public Project1(String projecttype,int projectcount)

        {

          this.projecttype = projecttype;

                this.projectcount = projectcount;
```

```
        }


        public void display()

        {

                System.out.println("project type: "+projecttype);

                System.out.println("project count: "+projectcount);

        }

}
```

2) Create a Main class to test the above classes.

```java
package employeepackage;

import departementpackage.Departement;

import departmentpackage.Project1;

public class Admin

{

    public static void main(String args[])

    {

            System.out.println("display employee details");

            Employee employeedetails=new Employee(2,"Kalyani",67f);

            employeedetails.display();


            System.out.println("display Manager details:");
```

```java
				Manager managerdetails=new Manager(101,"Shubham",23,60.000f);

				managerdetails.display();


				System.out.println("display Department details:");

				Departement departementdetails=new Departement(111,"Junior
Software Engineer");

				departementdetails.display();


				System.out.println("display project1 details:");

				Project1 project1details=new Project1(" Software Developement",3);

				project1details.display();



		}
	}
```

3) Write a program to check how many Shape objects created.

```java
public class ShapeObject

{

private static int count;

public ShapeObject()

{
```

```java
count++;

}

public static void main(String[] args)

{

ShapeObject square = new ShapeObject();

ShapeObject rectangle = new ShapeObject();

ShapeObject triangle = new ShapeObject();

ShapeObject circle = new ShapeObject();

System.out.print("Number of Objects created: " + ShapeObject.count);

 }

}
```