**\*Shweta Powar\***

**\*Assignment -7\***

**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.**

**Program:**

**//1st package employeepackage:**

**//Class Employee:**

**package** employeepackage;

**public** **class** Employee {

**int** eid;

String ename;

String address;

**float** salary;

Employee() //No Argument Constructor

{

eid=100;

ename="Sagar Kadam";

address="Satara";

salary=25.33f;

}

@Override

**public** String toString() {

**return** "Employee [eid=" + eid + ", ename=" + ename + ", address=" + address + ", salary=" + salary + "]";

}

}

**//Class Managar:**

**package** employeepackage;

**public** **class** Manager {

**int** mid;

String mname;

String maddress;

**float** msalary;

Manager() //No Argument Constructor

{

mid=200;

mname="Mr.Shinde";

maddress="Nashik";

msalary=50.25f;

}

@Override

**public** String toString() {

**return** "Manager [mid=" + mid + ", mname=" + mname + ", maddress=" + maddress + ", msalary=" + msalary + "]";

}

}

**//Class Admin:**

**package** employeepackage;

**public** **class** Admin {

**int** aid;

String aname;

String login;

String password;

Admin() //No Argument Constructor

{

aid=300;

aname="mr.Patil";

login="patil00@gmail.com";

password="patil";

}

@Override

**public** String toString() {

**return** "Admin [aid=" + aid + ", aname=" + aname + ", login=" + login + ", password=" + password + "]";

}

}

**//2nd package departmentpackage:**

**//class Department:**

**package** departmentpackage;

**public** **class** Department {

**int** id;

String name;

String add;

**public** Department() //No Argument Constructor

{

id=400;

name="Manegment";

add="Mumbai";

}

@Override

**public** String toString() {

**return** "Department [id=" + id + ", name=" + name + ", add=" + add + "]";

}

}

**//class Project:**

**package** departmentpackage;

**public** **class** Project {

**int** pid;

String pname;

**public** Project() //No Argument Constructor

{

pid=500;

pname="Bank Manegment";

}

@Override

**public** String toString() {

**return** "Project [pid=" + pid + ", pname=" + pname + "]";

}

}

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

**Program:**

**//Main class:**

package employeepackage;

import departmentpackage.Department;

import departmentpackage.Project;

public class TestPackage {

public static void main(String[] args) {

// TODO Auto-generated method stub

Employee employee=new Employee(); //Calling Employee class Const

System.out.println(employee);

Manager manager=new Manager();//Calling Manager class Const

System.out.println(manager);

Admin admin=new Admin();//Calling Admin class const

System.out.println(admin);

Department department=new Department();//Calling Manager class Const

System.out.println(department);

Project project=new Project();//Calling Project class Const

System.out.println(project);

}

}

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

**Program:**

**public** **class** ShapeObject {

**private** **static** **int** *count*;

**public** ShapeObject() //No Argument Constructor

{

*count*++; // count variable increase by 1

}

**public** **static** **void** main(String[] args)

{

ShapeObject circle = **new** ShapeObject();

ShapeObject square = **new** ShapeObject();

ShapeObject rectangle = **new** ShapeObject();

ShapeObject triangle = **new** ShapeObject();

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

}

}