**ASSIGNMENT 5**

1. Create an Employee class with following attributes

**package** assignment5;

**import** java.util.\*;

**public** **class** Q1 {

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

{

Scanner sc= **new** Scanner(System.***in***);

Employee e= **new** Employee();

e.setEmpName("Sundar");

e.setEmpId(1074);

e.setEmpDept("IT");

e.setEmpDesgn("SDE");

System.***out***.println(e.getEmpName());

System.***out***.println(e.getEmpId());

System.***out***.println(e.getEmpDept());

System.***out***.println(e.getEmpDesgn());

}

}

**class** Employee

{

**public** String EmpName;

**public** **int** EmpId;

**public** String EmpDept;

**public** String EmpDesgn;

**public** String getEmpName() {

**return** EmpName;

}

**public** **void** setEmpName(String empName) {

**this**.EmpName = empName;

}

**public** **int** getEmpId() {

**return** EmpId;

}

**public** **void** setEmpId(**int** empId) {

**this**.EmpId = empId;

}

**public** String getEmpDept() {

**return** EmpDept;

}

**public** **void** setEmpDept(String empDept) {

**this**.EmpDept = empDept;

}

**public** String getEmpDesgn() {

**return** EmpDesgn;

}

**public** **void** setEmpDesgn(String empDesgn) {

**this**.EmpDesgn = empDesgn;

}

**public** Employee() {

}

**public** Employee(String empName,String empDept, String empDesgn, **int** empId) {

**this**.EmpName = empName;

**this**.EmpId = empId;

**this**.EmpDept = empDept;

**this**.EmpDesgn = empDesgn;

}

}

**OUTPUT:**

Sundar

1074

IT

SDE

2.Setting constraints for variable values

**package** assignment5;

**import** java.util.\*;

**public** **class** Q1 {

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

{

Scanner sc= **new** Scanner(System.***in***);

Employee e= **new** Employee();

System.***out***.println("Enter Employee name");

String name=sc.nextLine();

System.***out***.println("Enter Employee Id");

**int** id=sc.nextInt();

System.***out***.println("Enter Employee Dept");

String dept=sc.next();

System.***out***.println("Enter Employee Designation");

String desg=sc.next();

e.setEmpName(name);

e.setEmpId(id);

e.setEmpDept(dept);

e.setEmpDesgn(desg);

System.***out***.println(e.getEmpName());

System.***out***.println(e.getEmpId());

System.***out***.println(e.getEmpDept());

System.***out***.println(e.getEmpDesgn());

}

}

**class** Employee

{

**public** String EmpName;

**public** **int** EmpId;

**public** String EmpDept;

**public** String EmpDesgn;

**public** Employee() {

}

**public** Employee(String empDept, String empDesgn, **int** empId) {

**this**.EmpName = **null**;

**this**.EmpDept = empDept;

**this**.EmpDesgn = empDesgn;

**this**.EmpId = empId;

}

**public** Employee(String empName, String empDesgn, **int** empId) {

**this**.EmpName = empName;

**this**.EmpDept = **null**;

**this**.EmpDesgn = empDesgn;

**this**.EmpId = empId;

}

**public** Employee(String empName,String empDep, **int** empId) {

**this**.EmpName = empName;

**this**.EmpDept = empDept;

**this**.EmpDesgn = **null**;

**this**.EmpId = empId;

}

**public** Employee(String empName,String empDept, String empDesgn) {

**this**.EmpName = empName;

**this**.EmpDept = empDept;

**this**.EmpDesgn = empDesgn;

**this**.EmpId = 0;

}

**public** String getEmpName() {

**return** EmpName;

}

**public** **void** setEmpName(String empName) {

**if**(empName==**null**)

**this**.EmpName= "Enter valid Name";

**else**

**this**.EmpName = empName;

}

**public** **int** getEmpId() {

**return** EmpId;

}

**public** **void** setEmpId(**int** empId) {

**this**.EmpId = empId;

}

**public** String getEmpDept() {

**return** EmpDept;

}

**public** **void** setEmpDept(String empDept) {

**if**(empDept.equals("ttht") || empDept.equals("digital") || empDept.equals("rcm") || empDept.equals("devops"))

**this**.EmpDept = empDept;

**else**

**this**.EmpDept="Invalid Dept";

}

**public** String getEmpDesgn() {

**return** EmpDesgn;

}

**public** **void** setEmpDesgn(String empDesgn) {

**if**(empDesgn.equals("developer") || empDesgn.equals("tester")||empDesgn.equals("lead")||empDesgn.equals("manager"))

**this**.EmpDesgn = empDesgn;

**else**

**this**.EmpDesgn="Invalid Designation";

}

}

OUTPUT:

Enter Employee name

Peter

Enter Employee Id

19374

Enter Employee Dept

digital

Enter Employee Designation

lead

peter

19374

digital

lead

3.Book Store

**package** assignment5;

**class** Book

{

String Author;

String Title;

**double** Price;

**int** PYear;

**public** Book(String author, String title, **double** price, **int** pYear) {

**this**.Author = author;

**this**.Title = title;

**this**.Price = price;

**this**.PYear = pYear;

}

}

**public** **class** Q3 {

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

Book B1= **new** Book("Daniel Defoe", "Robinson Crusoe", 15.50, 1719);

Book B2= **new** Book("Joseph Conrad", "Heart of Darkness", 12.80, 1902);

Book B3= **new** Book("Pat Conroy", "Beach Music", 9.50, 1996);

System.***out***.println("Author"+" |"+"Title"+" |"+"Price"+" |"+"Published Year");

System.***out***.println(B1.Author+" |"+B1.Title+" |"+B1.Price+" |"+B1.PYear);

System.***out***.println(B2.Author+" |"+B2.Title+" |"+B2.Price+" |"+B2.PYear);

System.***out***.println(B3.Author+" |"+B3.Title+" |"+B3.Price+" |"+B3.PYear);

}

}

OUTPUT:

Author |Title |Price |Published Year

Daniel Defoe |Robinson Crusoe |15.5 |1719

Joseph Conrad |Heart of Darkness |12.8 |1902

Pat Conroy |Beach Music |9.5 |1996

4.Banking system

**package** assignment5;

**import** java.util.\*;

**public** **class** Q4 {

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

{

Scanner sc=**new** Scanner(System.***in***);

Customer c = **new** Customer();

System.***out***.println("Enter The customer name");

String name=sc.next();

System.***out***.println("Enter The cutomer Id");

**int** id=sc.nextInt();

System.***out***.println("Enter The customer Address");

String address=sc.next();

System.***out***.println("Enter Accoount type of customer");

String type=sc.next();

System.***out***.println("Enter balance of customer");

**double** bal=sc.nextDouble();

c.setName(name);

c.setCId(id);

c.setAddress(address);

c.setAccType(type);

c.setBalance(bal);

sc.close();

System.***out***.println(c.getName());

System.***out***.println(c.getCId());

System.***out***.println(c.getAddress());

System.***out***.println(c.getAccType());

System.***out***.println(c.getBalance());

}

}

**class** Customer

{

**public** String Name;

**public** String Address;

**public** String AccType;

**public** **int** CId;

**public** **double** Balance;

**public** Customer(){

}

**public** Customer(String name, String address, String accType, **int** cId, **double** balance) {

Name = name;

Address = address;

AccType = accType;

CId = cId;

Balance = balance;

}

**public** String getName() {

**return** Name;

}

**public** **void** setName(String name) {

**this**.Name = name;

}

**public** String getAddress() {

**return** Address;

}

**public** **void** setAddress(String address) {

**this**.Address = address;

}

**public** String getAccType() {

**return** AccType;

}

**public** **void** setAccType(String accType) {

**this**.AccType = accType;

}

**public** **int** getCId() {

**return** CId;

}

**public** **void** setCId(**int** cId) {

**this**.CId = cId;

}

**public** **double** getBalance() {

**return** Balance;

}

**public** **void** setBalance(**double** balance) {

**this**.Balance = balance;

}

}

OUTPUT:

Enter The customer name

Sathya

Enter The cutomer Id

10101

Enter The customer Address

Banglore

Enter Accoount type of customer

savings

Enter balance of customer

100000.00

Sathya

10101

Banglore

savings

100000.0