**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