

1.RECTANGLE CLASS DEMO

```
package oop;
```

```
public class Rectangle {  
    private float length,width;  
  
    public Rectangle() {  
        length=1.0f;  
        width=1.0f;  
    }  
    public Rectangle(float length,float width) {  
        this.length=length;  
        this.width=width;  
    }  
  
    public float getLength()  
    {  
        return length;  
    }  
  
    public void setLength(float length) {  
        this.length=length;  
    }  
  
    public float getWidth()  
    {  
        return width;  
    }  
    public void setWidth(float width) {  
        this.width=width;  
    }  
  
    public double getArea()  
    {  
        return length*width;  
    }  
  
    public double getPerimeter()  
    {  
        return 2*(length+width);  
    }  
  
    public String toString() {  
        return "Rectangle[Length="+length+", Width="+width+"]";  
    }  
}  
package oop;
```

```
public class TestMain {  
  
    public static void main(String[] args) {  
  
        Rectangle r1=new Rectangle();  
        System.out.println(r1);  
  
        Rectangle r2=new Rectangle(1.2f,3.4f);  
        System.out.println(r2);  
  
        r1.setLength(5.6f);  
        r1.setWidth(7.8f);  
        System.out.println(r1);  
        System.out.println("length is: " + r1.getLength());  
        System.out.println("width is: " + r1.getWidth());  
  
        System.out.printf("area is: %.2f%n", r1.getArea());  
        System.out.printf("perimeter is: %.2f%n", r1.getPerimeter());  
  
    }  
  
}
```

2.EMPLOYEE CLASS DEMO

```
package oop;
```

```
public class Employee {
    private int id,salary;
    private String firstName,lastName;

    public Employee(int id,String firstName,String lastName,int salary)
    {
        this.id=id;
        this.firstName=firstName;
        this.lastName=lastName;
        this.salary=salary;
    }
    public int getID()
    {
        return id;
    }

    public int getSalary()
    {
        return salary;
    }

    public String getFirstName()
    {
        return firstName;
    }

    public String getLastName()
    {
        return lastName;
    }

    public String getName()
    {
        return firstName+" "+lastName;
    }
    public void setSalary(int salary)
    {
        this.salary=salary;
    }

    public int getAnnualSalary()
    {
        return 12*salary;
    }
}
```

```

    public int raiseSalary(int percent)
    {
        return percent*salary;
    }

    public String toString()
    {
        return "Employee[id="+id+",name=" +firstName+ " "+lastName +
",salary="+salary+"]";
    }
}

```

```

package oop;

```

```

public class TestMainEmp {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Employee e1 = new Employee(8, "Shivaraj", "Shetty", 2500);
        System.out.println(e1);
        e1.setSalary(999);
        System.out.println(e1); // toString();
        System.out.println("id is: " + e1.getID());
        System.out.println("firstname is: " + e1.getFirstName());
        System.out.println("lastname is: " + e1.getLastName());
        System.out.println("salary is: " + e1.getSalary());
        System.out.println("name is: " + e1.getName());
        System.out.println("annual salary is: " + e1.getAnnualSalary());
        System.out.println(e1.raiseSalary(10));
        System.out.println(e1);
    }
}

```