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Branch: Information Technology   **Div: D/IT1**

Course: **Object Oriented Programming using Java**

Experiment no. 6

Aim: To implement Constructors and constructor overloading

Problem Statement 1:

WAOOP to count the no. of objects created of a class using constructors.
Code:

Code:

```java
class  ObjectCount
{
        static int count=0;
        ObjectCount()
        {
                count++;
        }
}
class Object
{
        public static void main(String[] args)
        {
                ObjectCount obj1=new ObjectCount();
                ObjectCount obj2=new ObjectCount();
                ObjectCount obj3=new ObjectCount();
                System.out.println("No of object is "+ObjectCount.count);
        }
}
```

Output :

```
C:\Users\91720\OneDrive\Desktop\Anish Java>javac Object.java

C:\Users\91720\OneDrive\Desktop\Anish Java>java Object
No of object is 3
```

Problem Statement 2:

WAP to display area of square and rectangle using the concept of overloaded constructor (use parameterized, non-parameterized and copy constructor).

Code:

```java
import java.util.*;
class AreaRectangle
{


        int l;
        int b;
    AreaRectangle()
    {
        l=4;
        b=8;
        System.out.println("Area of rectangle(Default constructor):"+(l*b));
    }
    AreaRectangle(int l,int b)
    {
        System.out.println("Area of rectangle(Parameterized constructor):"+(l*b));
    }
    AreaRectangle(AreaRectangle obj)
    {
        obj.l=5;
        obj.b=9;
        System.out.println("Area of rectangle(Copy constructor):"+(obj.l*obj.b));
    }


}
class AreaConst
{
    public static void main(String[] args)
    {
```

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```
        AreaRectangle obj1=new AreaRectangle();

        AreaRectangle obj2=new AreaRectangle(7,8);

        AreaRectangle obj3=new AreaRectangle(obj2);

    }

}
```

Output:

```
C:\Users\91720\OneDrive\Desktop\Anish Java>javac AreaConst.java

C:\Users\91720\OneDrive\Desktop\Anish Java>java AreaConst
Area of rectangle(Default constructor):32
Area of rectangle(Parameterized constructor):56
Area of rectangle(Copy constructor):45
```