

Experiment No. 11

Aim

Java program to calculate the area of rectangle using the concept of Encapsulation.

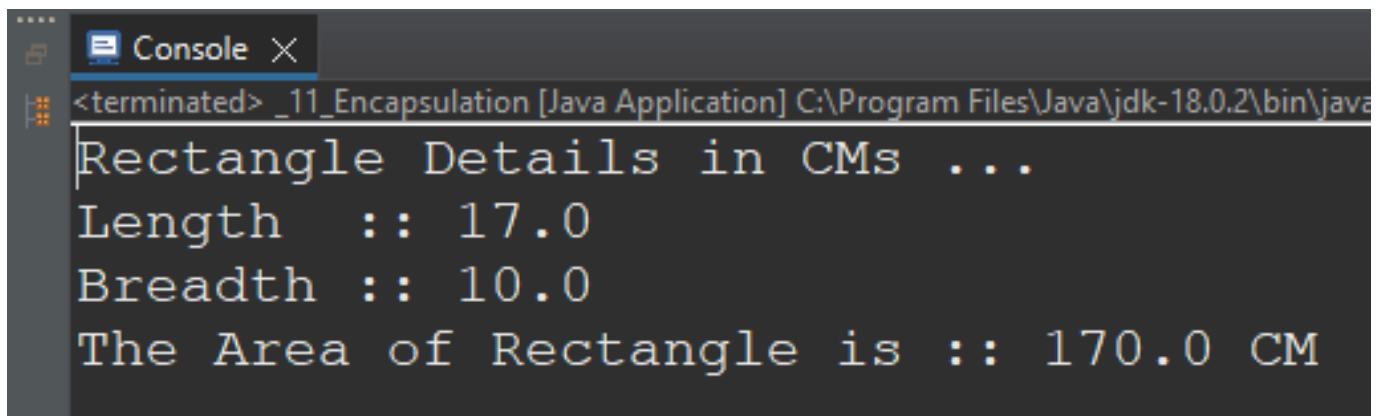
Source code

```
package java_file;
```

```
class Area_Rectangle {  
    private float length;  
    private float breadth;  
    private float Area;  
  
    private void Cal_Area() {  
        Area=length*breadth;  
        System.out.println("The Area of Rectangle is :: "+Area+" CM");  
    }  
  
    public void setLength_Breadth(float length, float breadth) {  
        this.length = length;  
        this.breadth = breadth;  
    }  
  
    public float getLength() {  
        return length;  
    }  
  
    public float getBreadth() {  
        return breadth;  
    }  
}
```

```
        public void show_Area() {  
            Cal_Area();  
        }  
    }  
}  
  
public class _11_Encapsulation {  
  
    public static void main(String[] args) {  
        Area_Rectangle obj=new Area_Rectangle();  
        obj.setLength_Breadth(17, 10);  
        System.out.println("Rectangle Details in CMs ...");  
        System.out.println("Length :: "+obj.getLength());  
        System.out.println("Breadth :: "+obj.getBreadth());  
        obj.show_Area();  
    }  
}
```

Output



```
Console X  
<terminated> _11_Encapsulation [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\java  
Rectangle Details in CMs ...  
Length :: 17.0  
Breadth :: 10.0  
The Area of Rectangle is :: 170.0 CM
```