

7. Develop a JAVA program to create an interface Resizable with methods `resizeWidth(int width)` and `resizeHeight(int height)` that allow an object to be resized. Create a class `Rectangle` that implements the `Resizable` interface and implements the resize methods.

Save Filename as: `rect_resize.java`

Solution:-

```
interface Resizable
{
    void resizeWidth (int width);
    void resizeHeight (int height);
}

class Rectangle implements Resizable
{
    private int width;
    private int height;

    // Constructor
    public Rectangle (int width, int height)
    {
        this.width = width;
        this.height = height;
    }

    @Override
    public void
    resizeWidth (int width)
    {
        this.width = width;
```

```
}  
  
@Override  
public void  
resizeHeight (int height)  
{  
    this.height = height;  
}  
  
// Additional method to get the dimensions  
public void  
getDimensions ()  
{  
    System.out.println ("Width: " + width + ", Height: " + height);  
}  
}  
  
public class rect_resize  
{  
    public static void main (String[] args)  
    {  
        Rectangle rectangle = new Rectangle (5, 7);  
        System.out.println ("Original Dimensions:");  
        rectangle.getDimensions ();  
        rectangle.resizeWidth (8);  
        rectangle.resizeHeight (10);  
        System.out.println ("\nResized Dimensions:");  
        rectangle.getDimensions ();  
    }  
}
```

```
}
```

Compile As: javacrect_resize.java

Run As: java rect_resize

Output:

Original Dimensions:

Width: 5, Height: 7

Resized Dimensions:

Width: 8, Height: 10