

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: javarect_resize.java

Run As: java rect_resize

Output:

Original Dimensions:

Width: 5, Height: 7

Resized Dimensions:

Width: 8, Height: 10