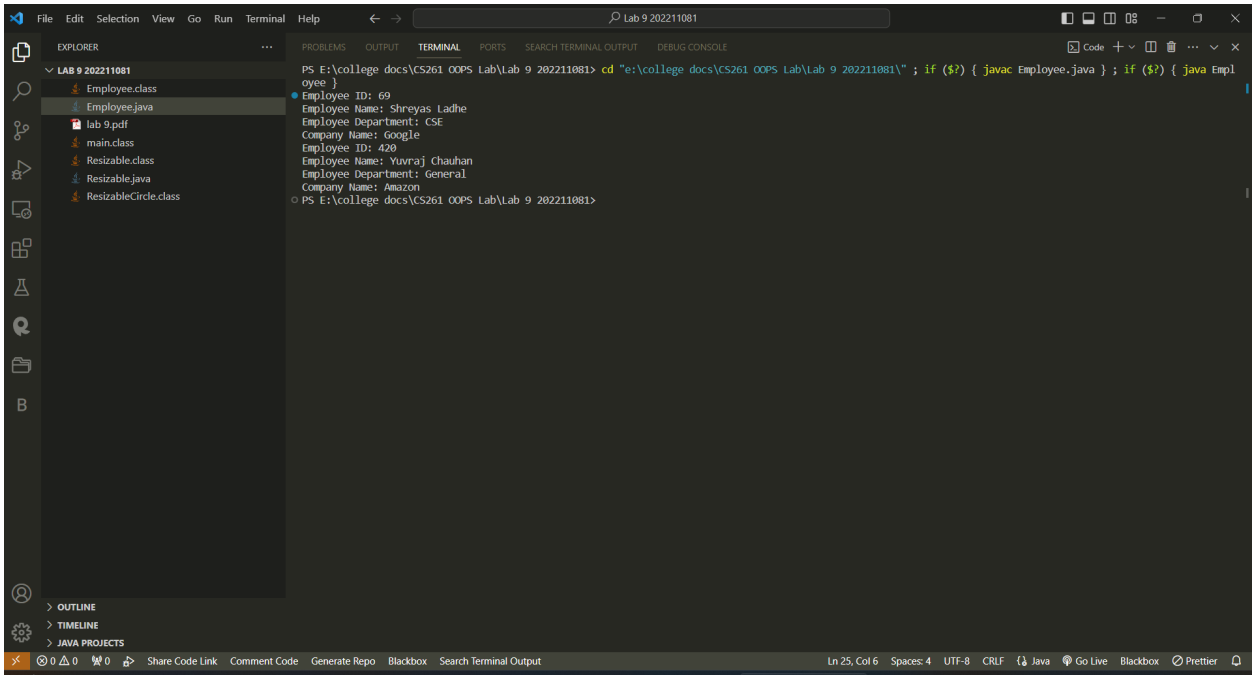
Code:

```
public class Employee {
    public
        int EmployeeID;
        String EmployeeName;
        String EmployeeDepartment;
        static String companyName;  // used static keyword

    public Employee(int EmployeeID, String EmployeeName, String
EmployeeDepartment, String companyName) {
        this.EmployeeID = EmployeeID;
        this.EmployeeName = EmployeeName;
        this.EmployeeDepartment = EmployeeDepartment;
        Employee.companyName = companyName;
    }

    // constructor with 2 attributes
    public Employee(int EmployeeID, String EmployeeName) {
        this(EmployeeID, EmployeeName, "General", "Amazon");
    }

    public void displayDetails() {
        System.out.println("Employee ID: " + EmployeeID);
        System.out.println("Employee Name: " + EmployeeName);
        System.out.println("Employee Department: " + EmployeeDepartment);
        System.out.println("Company Name: " + companyName);
    }

    public static void main(String[] args) {
        Employee EmpUno = new Employee(69, "Shreyas Ladhe", "CSE", "Google");
        EmpUno.displayDetails();
        Employee EmpDuo = new Employee(420, "Yuvraj Chauhan");
        EmpDuo.displayDetails();
    }
}
```

Output:

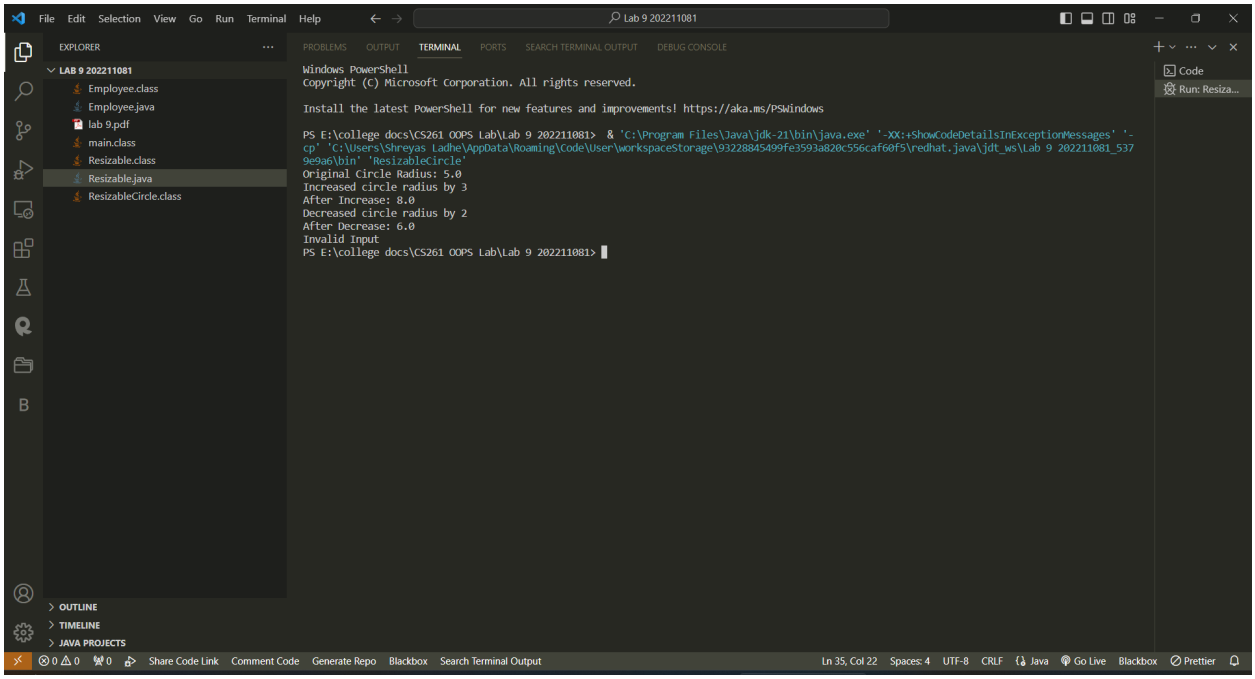


Code:

```
interface Resizable {
    void increaseSize(int increaseBy);
    void decreaseSize(int decreaseBy);
}

class ResizableCircle implements Resizable {
    private double radius;

    public ResizableCircle(double radius) {
        this.radius = radius;
    }

    @Override // overriding used
    public void increaseSize(int increaseBy) {
        if (increaseBy > 0) {
            this.radius += increaseBy;
            System.out.println("Increased circle radius by " + increaseBy);
        } else {
```

```
            System.out.println("Invalid Input");
        }
    }

    @Override
    public void decreaseSize(int decreaseBy) {
        if (decreaseBy > 0) {
            if (this.radius - decreaseBy >= 0) {
                this.radius -= decreaseBy;
                System.out.println("Decreased circle radius by " + decreaseBy);
            } else {
                System.out.println("Invalid Input");
            }
        }
    }

    public double getRadius() {
        return radius;
    }

    public static void main(String[] args) {
        ResizableCircle circle = new ResizableCircle(5.0);
        System.out.println("Original Circle Radius: " + circle.getRadius());

        circle.increaseSize(3);
        System.out.println("After Increase: " + circle.getRadius());

        circle.decreaseSize(2);
        System.out.println("After Decrease: " + circle.getRadius());

        circle.decreaseSize(10);
    }
}
```

Output:


File Edit Selection View Go Run Terminal Help
Lab 9 202211081
EXPLORER
LAB 9 202211081
Employee.class
Employee.java
lab 9.pdf
main.class
Resizable.class
Resizable.java
ResizableCircle.class
PROBLEMS OUTPUT TERMINAL PORTS SEARCH TERMINAL OUTPUT DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS E:\college docs\CS261 OOPS Lab\Lab 9 202211081> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Shreyas Ladhe\AppData\Roaming\Code\User\workspaceStorage\9322B845499fe3593a820c556caf60f5\redhat.java\jdt_ws\Lab 9 202211081_5379e9a6\bin' 'ResizableCircle'
Original Circle Radius: 5.0
Increased circle radius by 3
After Increase: 8.0
Decreased circle radius by 2
After Decrease: 6.0
Invalid Input
PS E:\college docs\CS261 OOPS Lab\Lab 9 202211081>
Code
Run: Resiza...
OUTLINE
TIMELINE
JAVA PROJECTS
Share Code Link Comment Code Generate Repo Blackbox Search Terminal Output
Ln 35, Col 22 Spaces: 4 UTF-8 CRLF Java Go Live Blackbox Prettier