
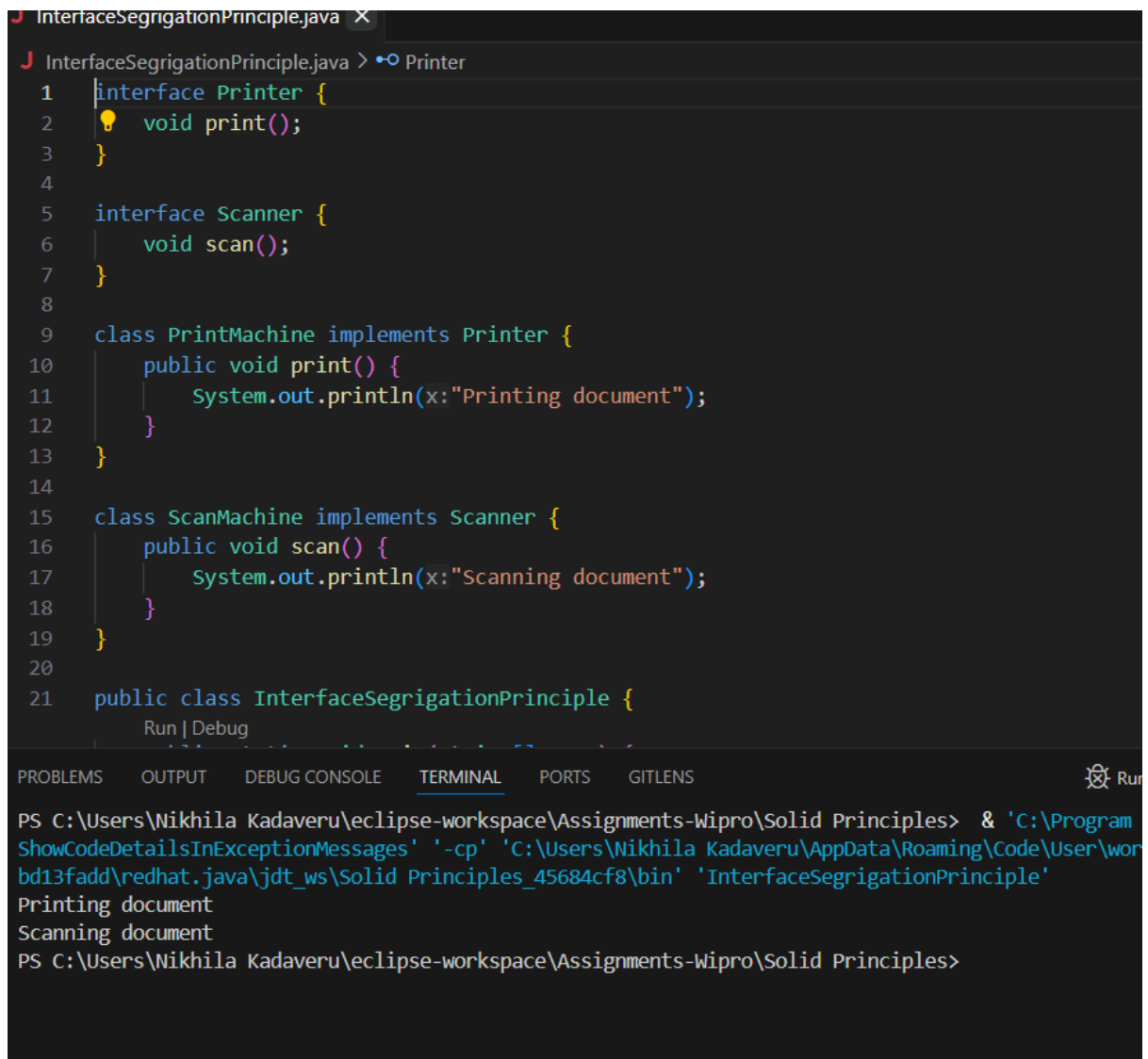


```
J DependencyInversionPrinciple.java X
J DependencyInversionPrinciple.java > Light
1 interface Light {
2     void turnOn();
3 }
4
5 class LEDLight implements Light {
6     public void turnOn() {
7         System.out.println(x:"LED Light is ON");
8     }
9 }
10
11 class Switch {
12     Light light;
13
14     Switch(Light light) {
15         this.light = light;
16     }
17
18     void operate() {
19         light.turnOn();
20     }
21 }
22
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS  Run: Dependency

```
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles> & 'C:\Program Files\Java\jdk-11.0.2\bin\java.exe' -cp 'C:\Users\Nikhila Kadaveru\AppData\Roaming\Code\User\workspaceStorage\6\hat.java\jdt_ws\Solid Principles_45684cf8\bin' 'DependencyInversionPrinciple'
LED Light is ON
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles>
```

Figure 1 DependencyInversionPrinciple



```
InterfaceSegregationPrinciple.java X
J InterfaceSegregationPrinciple.java > Printer
1 interface Printer {
2     void print();
3 }
4
5 interface Scanner {
6     void scan();
7 }
8
9 class PrintMachine implements Printer {
10     public void print() {
11         System.out.println(x:"Printing document");
12     }
13 }
14
15 class ScanMachine implements Scanner {
16     public void scan() {
17         System.out.println(x:"Scanning document");
18     }
19 }
20
21 public class InterfaceSegregationPrinciple {
    Run | Debug
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles> & 'C:\Program
ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nikhila Kadaveru\AppData\Roaming\Code\User\wor
bd13fadd\redhat.java\jdt_ws\Solid Principles_45684cf8\bin' 'InterfaceSegregationPrinciple'
Printing document
Scanning document
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles>
```

Figure 2InterfaceSegregationPrinciple

```
J LiskovSubstitutionPrinciple.java X
J LiskovSubstitutionPrinciple.java > Animal
1 class Animal {
2     public void makeSound() {
3         System.out.println(x:"Animal makes sound");
4     }
5 }
6
7 class Dog extends Animal {
8     public void makeSound() {
9         System.out.println(x:"Dog barks");
10    }
11 }
12
13 class Cat extends Animal {
14     public void makeSound() {
15         System.out.println(x:"Cat meows");
16     }
17 }
18
19 public class LiskovSubstitutionPrinciple {
20     Run | Debug
21     public static void main(String[] args) {
22         Animal a1 = new Dog();
23         a1.makeSound();
24     }
25 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles> & 'C:\Program
ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nikhila Kadaveru\AppData\Roaming\Code\User\wor
bd13fadd\redhat.java\jdt_ws\Solid Principles_45684cf8\bin' 'LiskovSubstitutionPrinciple'
Dog barks
Cat meows
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles>
```

Figure 3 LiskovSubstitutionPrinciple

```
J OpenClosedPrinciple.java X
J OpenClosedPrinciple.java > Message
1  abstract class Message {
2      abstract String getMessage();
3  }
4
5  class TextMessage extends Message {
6      public String getMessage() {
7          return "This is a text message.";
8      }
9  }
10
11 class EmailMessage extends Message {
12     public String getMessage() {
13         return "This is an email message.";
14     }
15 }
16
17 public class OpenClosedPrinciple {
18     Run | Debug
19     public static void main(String[] args) {
20         Message text = new TextMessage();
21         Message email = new EmailMessage();
22     }
23 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-wipro\Solid Principles> & 'C:
ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Nikhila Kadaveru\AppData\Roaming\Code
bd13fadd\redhat.java\jdt_ws\Solid Principles_45684cf8\bin' 'OpenClosedPrinciple'
This is a text message.
This is an email message.
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-wipro\Solid Principles>
```

Figure 4OpenClosedPrinciple



```
SingleResponsibilityPrinciple.java > Student
1 class Student {
2     String name;
3
4     Student(String name) {
5         this.name = name;
6     }
7
8     void displayInfo() {
9         System.out.println("Student Name: " + name);
10    }
11 }
12
13 class StudentData {
14     void save(Student student) {
15         System.out.println("Saving student name: " + student.name);
16     }
17 }
18
19 public class SingleResponsibilityPrinciple {
20     public static void main(String[] args) {
21         Student s = new Student(name: "Nikhila");
22     }
23 }
```

void java.io.PrintStream.println(String x)
Prints a String and then terminates the line. This method behaves as the

- Parameters:
 - x The String to be printed.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GIT LENS

```
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles> & 'C:\Program Files\Eclipse Software\plugins\org.eclipse.jdt.core\bin\jdt_ws\Solid Principles_45684cf8\bin' 'SingleResponsibilityPrinciple'
Student Name: Nikhila
Saving student name: Nikhila
PS C:\Users\Nikhila Kadaveru\eclipse-workspace\Assignments-Wipro\Solid Principles>
```

Figure 5 SingleResponsibilityPrinciple