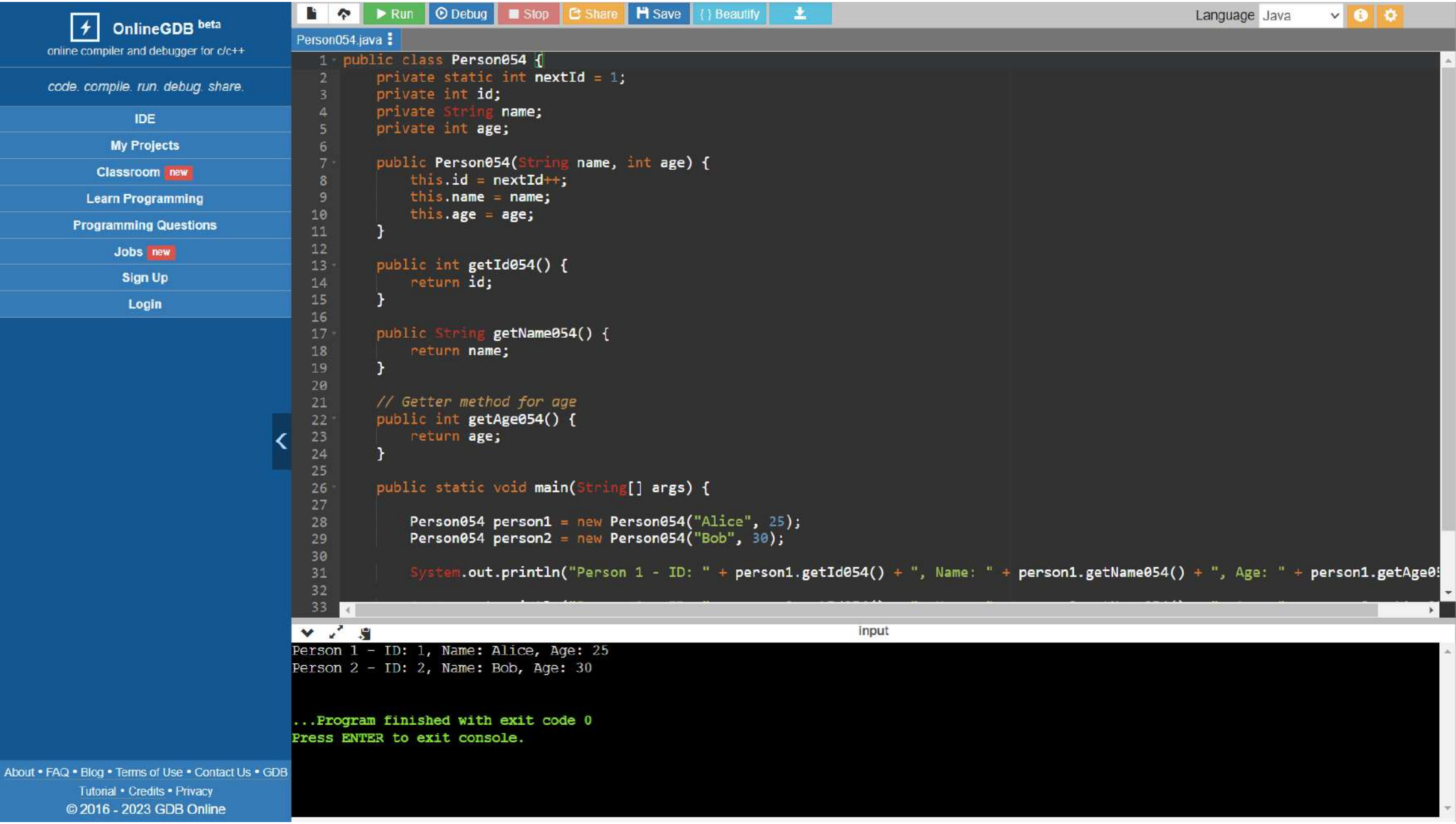
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Language Java
Person054.java
public class Person054 {
private static int nextId = 1;
private int id;
private String name;
private int age;
public Person054(String name, int age) {
this.id = nextId++;
this.name = name;
this.age = age;
}
public int getId054() {
return id;
}
public String getName054() {
return name;
}
// Getter method for age
public int getAge054() {
return age;
}
public static void main(String[] args) {
Person054 person1 = new Person054("Alice", 25);
Person054 person2 = new Person054("Bob", 30);
System.out.println("Person 1 - ID: " + person1.getId054() + ", Name: " + person1.getName054() + ", Age: " + person1.getAge0
input
Person 1 - ID: 1, Name: Alice, Age: 25
Person 2 - ID: 2, Name: Bob, Age: 30
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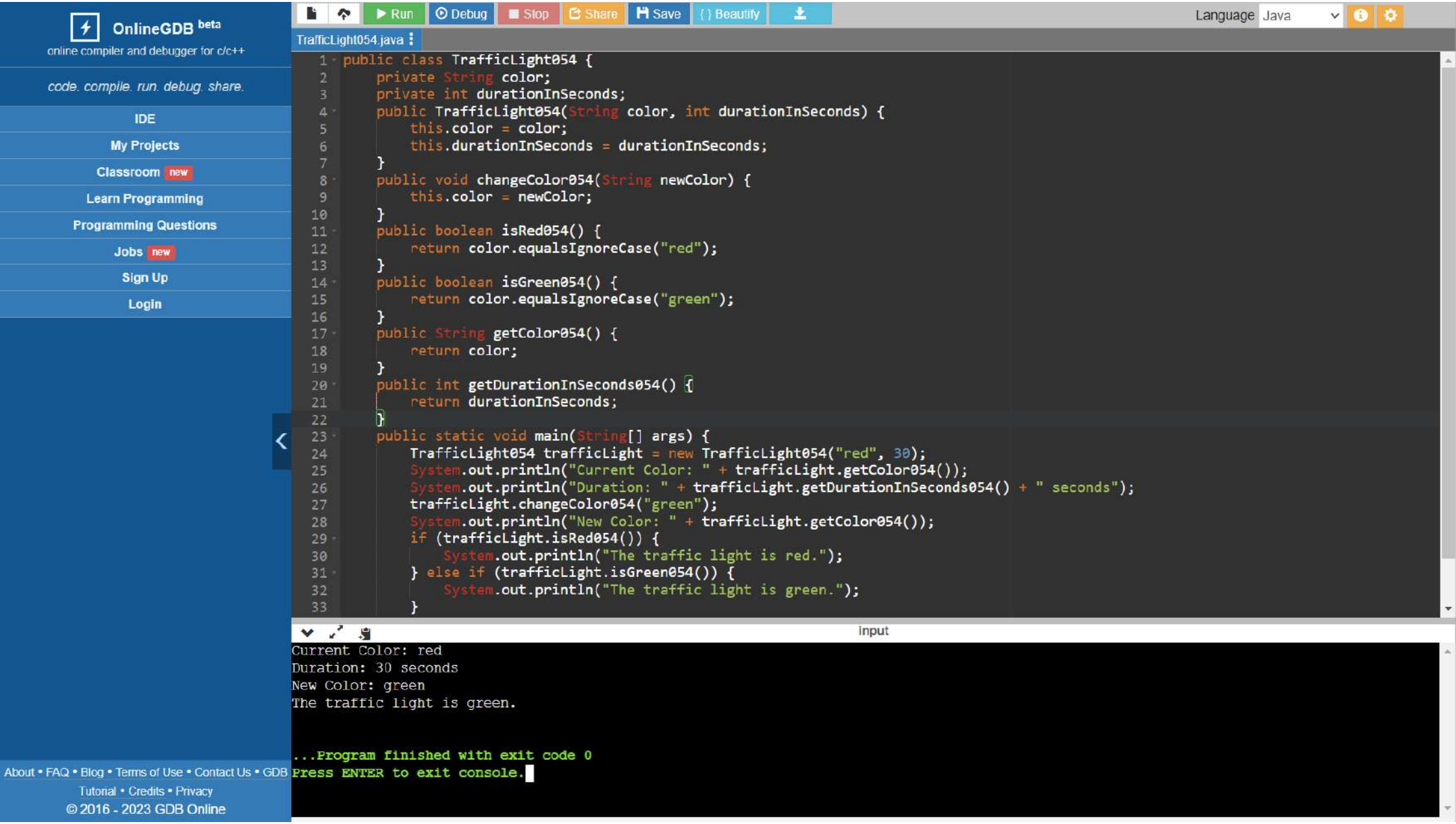
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Language Java
TrafficLight054.java
public class TrafficLight054 {
private String color;
private int durationInSeconds;
public TrafficLight054(String color, int durationInSeconds) {
this.color = color;
this.durationInSeconds = durationInSeconds;
}
public void changeColor054(String newColor) {
this.color = newColor;
}
public boolean isRed054() {
return color.equalsIgnoreCase("red");
}
public boolean isGreen054() {
return color.equalsIgnoreCase("green");
}
public String getColor054() {
return color;
}
public int getDurationInSeconds054() {
return durationInSeconds;
}
public static void main(String[] args) {
TrafficLight054 trafficLight = new TrafficLight054("red", 30);
System.out.println("Current Color: " + trafficLight.getColor054());
System.out.println("Duration: " + trafficLight.getDurationInSeconds054() + " seconds");
trafficLight.changeColor054("green");
System.out.println("New Color: " + trafficLight.getColor054());
if (trafficLight.isRed054()) {
System.out.println("The traffic light is red.");
} else if (trafficLight.isGreen054()) {
System.out.println("The traffic light is green.");
}
input
Current Color: red
Duration: 30 seconds
New Color: green
The traffic light is green.
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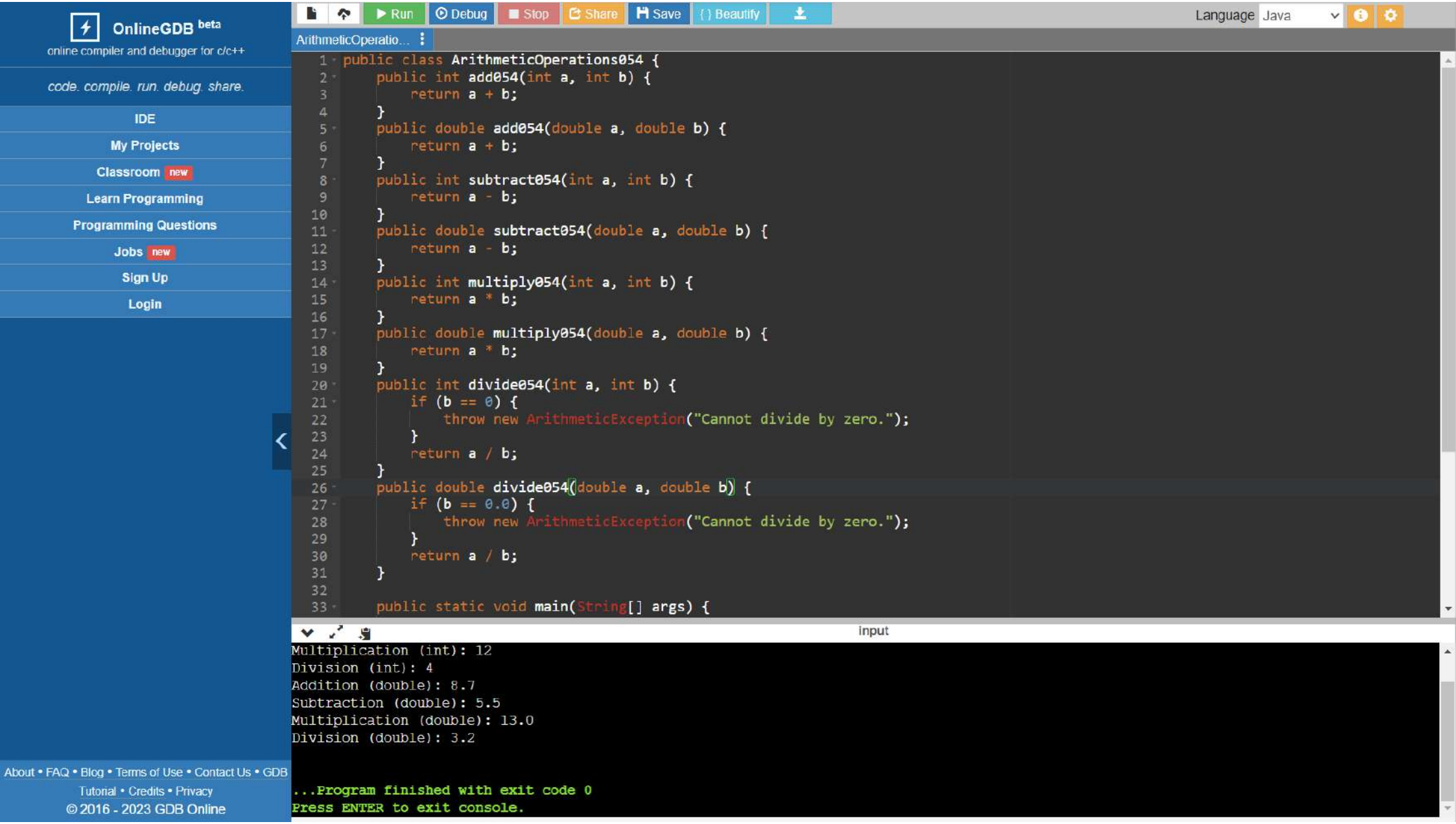
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{ } Beautify
Language Java
ArithmeticOperatio...
public class ArithmeticOperations054 {
public int add054(int a, int b) {
return a + b;
}
public double add054(double a, double b) {
return a + b;
}
public int subtract054(int a, int b) {
return a - b;
}
public double subtract054(double a, double b) {
return a - b;
}
public int multiply054(int a, int b) {
return a * b;
}
public double multiply054(double a, double b) {
return a * b;
}
public int divide054(int a, int b) {
if (b == 0) {
throw new ArithmeticException("Cannot divide by zero.");
}
return a / b;
}
public double divide054(double a, double b) {
if (b == 0.0) {
throw new ArithmeticException("Cannot divide by zero.");
}
return a / b;
}
public static void main(String[] args) {
input
Multiplication (int): 12
Division (int): 4
Addition (double): 8.7
Subtraction (double): 5.5
Multiplication (double): 13.0
Division (double): 3.2
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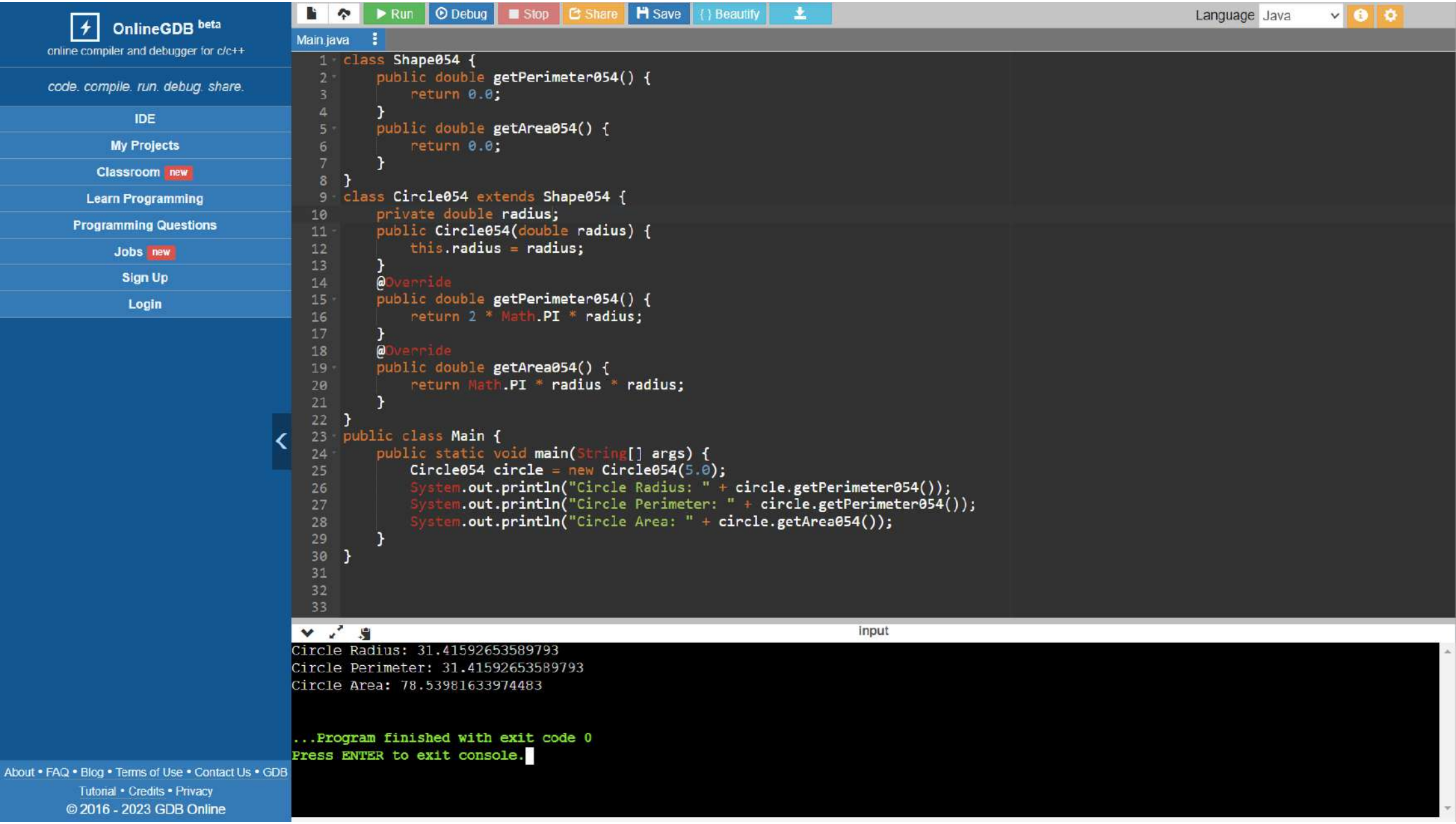
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Language Java
Main.java
class Shape054 {
public double getPerimeter054() {
return 0.0;
}
public double getArea054() {
return 0.0;
}
}
class Circle054 extends Shape054 {
private double radius;
public Circle054(double radius) {
this.radius = radius;
}
@Override
public double getPerimeter054() {
return 2 * Math.PI * radius;
}
@Override
public double getArea054() {
return Math.PI * radius * radius;
}
}
public class Main {
public static void main(String[] args) {
Circle054 circle = new Circle054(5.0);
System.out.println("Circle Radius: " + circle.getPerimeter054());
System.out.println("Circle Perimeter: " + circle.getPerimeter054());
System.out.println("Circle Area: " + circle.getArea054());
}
}
input
Circle Radius: 31.41592653589793
Circle Perimeter: 31.41592653589793
Circle Area: 78.53981633974483
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Main.java

```
    public void resizeWidth054(int width) {
        if (width > 0) {
            this.width = width;
        } else {
            System.out.println("Invalid width value. Width must be greater than 0.");
        }
    }
    @Override
    public void resizeHeight054(int height) {
        if (height > 0) {
            this.height = height;
        } else {
            System.out.println("Invalid height value. Height must be greater than 0.");
        }
    }
    public void display054() {
        System.out.println("Rectangle - Width: " + width + ", Height: " + height);
    }
}
public class Main {
    public static void main(String[] args) {
        Rectangle054 rectangle = new Rectangle054(5, 8);
        System.out.println("Initial State:");
        rectangle.display054();
        rectangle.resizeWidth054(10);
        rectangle.resizeHeight054(12);
        System.out.println("\nResized State:");
        rectangle.display054();
    }
}
```

input

```
Initial State:
Rectangle - Width: 5, Height: 8

Resized State:
Rectangle - Width: 10, Height: 12


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```

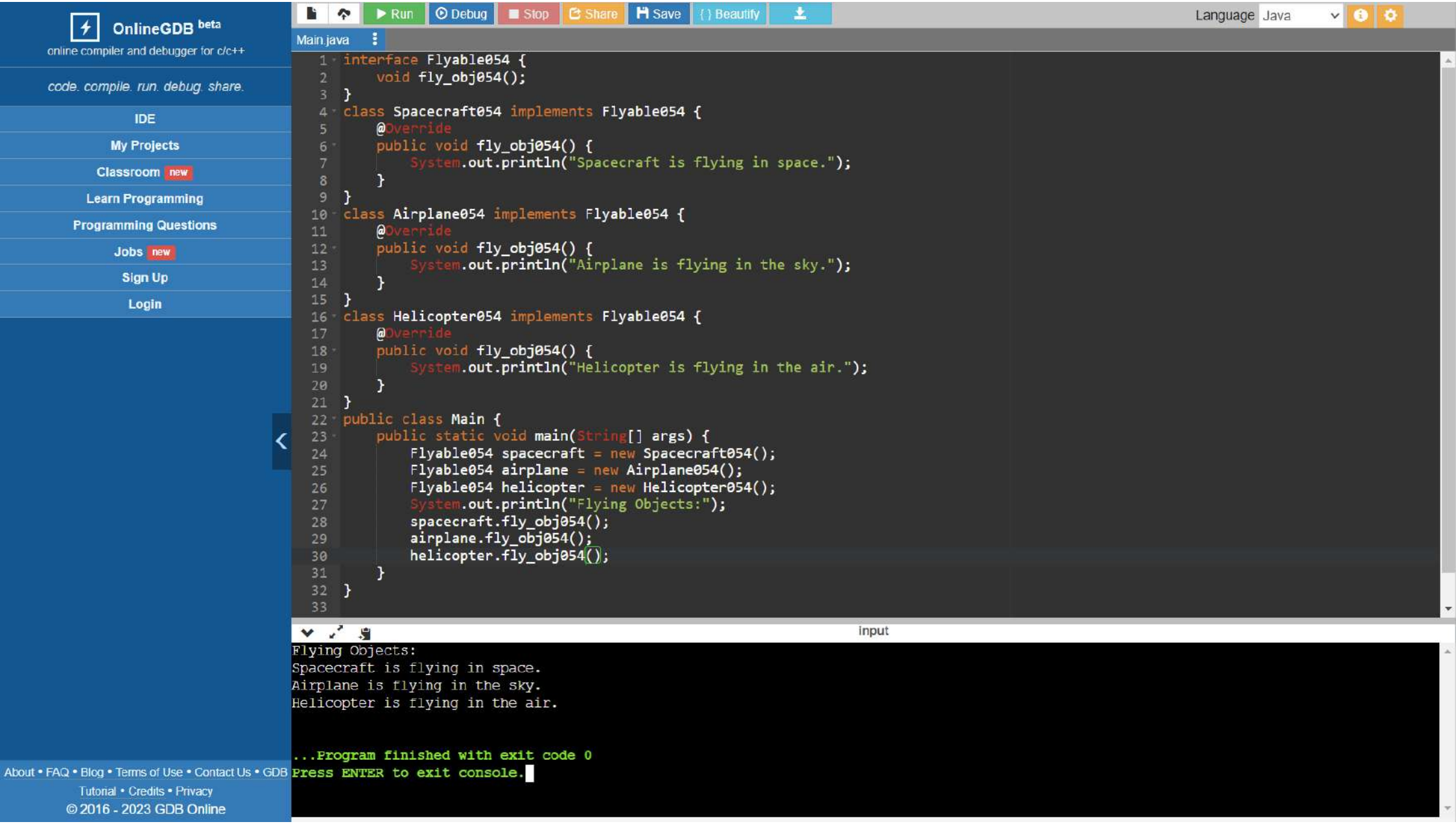
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{ } Beautify
Language Java
Main.java
interface Flyable054 {
void fly_obj054();
}
class Spacecraft054 implements Flyable054 {
@Override
public void fly_obj054() {
System.out.println("Spacecraft is flying in space.");
}
}
class Airplane054 implements Flyable054 {
@Override
public void fly_obj054() {
System.out.println("Airplane is flying in the sky.");
}
}
class Helicopter054 implements Flyable054 {
@Override
public void fly_obj054() {
System.out.println("Helicopter is flying in the air.");
}
}
public class Main {
public static void main(String[] args) {
Flyable054 spacecraft = new Spacecraft054();
Flyable054 airplane = new Airplane054();
Flyable054 helicopter = new Helicopter054();
System.out.println("Flying Objects:");
spacecraft.fly_obj054();
airplane.fly_obj054();
helicopter.fly_obj054();
}
}
input
Flying Objects:
Spacecraft is flying in space.
Airplane is flying in the sky.
Helicopter is flying in the air.
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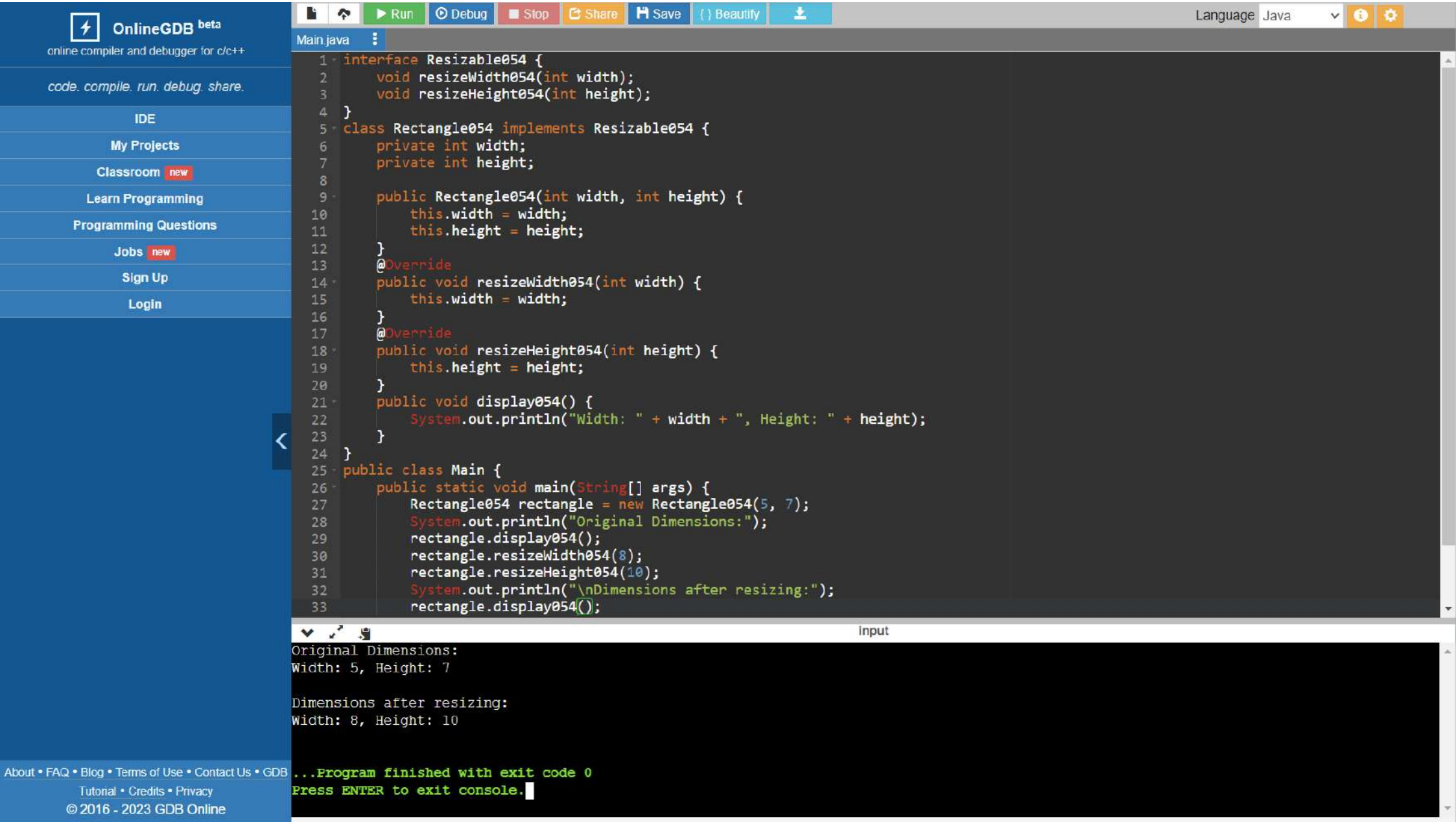
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Login
Run
Debug
Stop
Share
Save
{ } Beautify
Language Java
Main.java
interface Resizable054 {
void resizeWidth054(int width);
void resizeHeight054(int height);
}
class Rectangle054 implements Resizable054 {
private int width;
private int height;
public Rectangle054(int width, int height) {
this.width = width;
this.height = height;
}
@Override
public void resizeWidth054(int width) {
this.width = width;
}
@Override
public void resizeHeight054(int height) {
this.height = height;
}
public void display054() {
System.out.println("Width: " + width + ", Height: " + height);
}
}
public class Main {
public static void main(String[] args) {
Rectangle054 rectangle = new Rectangle054(5, 7);
System.out.println("Original Dimensions:");
rectangle.display054();
rectangle.resizeWidth054(8);
rectangle.resizeHeight054(10);
System.out.println("\nDimensions after resizing:");
rectangle.display054();
input
Original Dimensions:
Width: 5, Height: 7
Dimensions after resizing:
Width: 8, Height: 10
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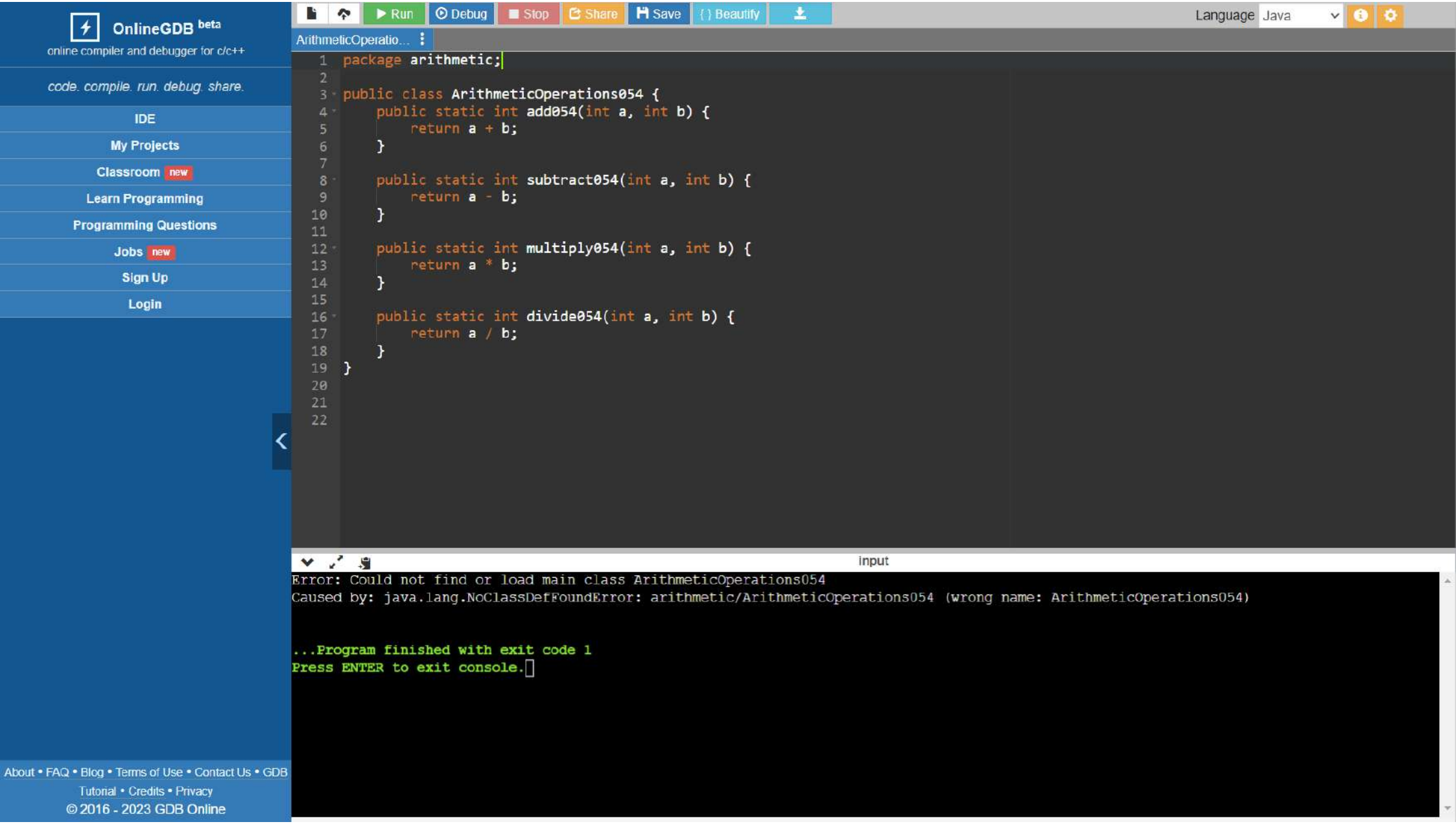
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Debug
Stop
Share
Save
{ } Beautify
Language Java
ArithmeticOperatio...
1 package arithmetic;
2
3 public class ArithmeticOperations054 {
4 public static int add054(int a, int b) {
5 return a + b;
6 }
7
8 public static int subtract054(int a, int b) {
9 return a - b;
10 }
11
12 public static int multiply054(int a, int b) {
13 return a * b;
14 }
15
16 public static int divide054(int a, int b) {
17 return a / b;
18 }
19 }
20
21
22
input
Error: Could not find or load main class ArithmeticOperations054
Caused by: java.lang.NoClassDefFoundError: arithmetic/ArithmeticOperations054 (wrong name: ArithmeticOperations054)
...Program finished with exit code 1
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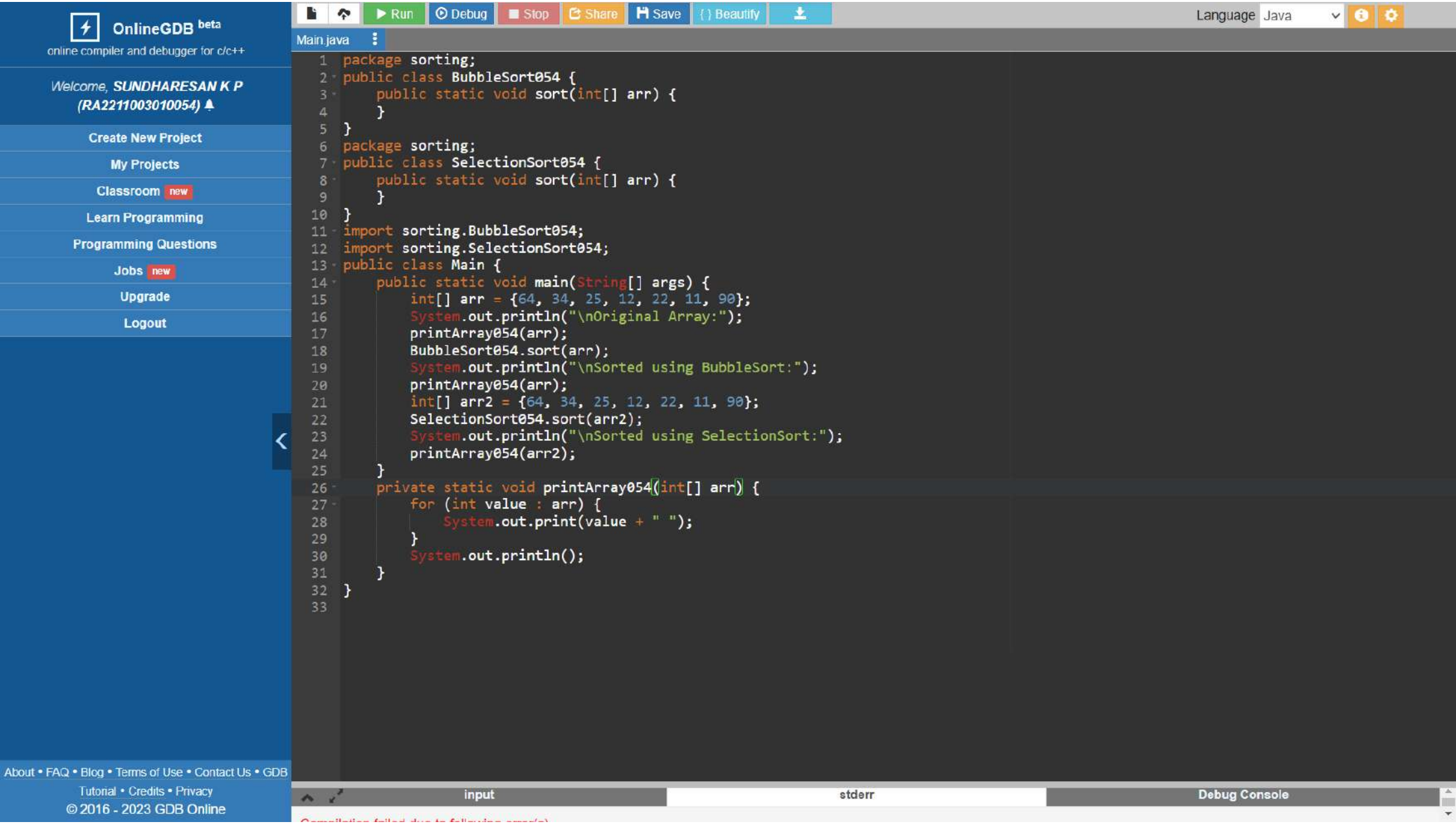
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Language Java
Main.java
package sorting;
public class BubbleSort054 {
public static void sort(int[] arr) {
}
}
package sorting;
public class SelectionSort054 {
public static void sort(int[] arr) {
}
}
import sorting.BubbleSort054;
import sorting.SelectionSort054;
public class Main {
public static void main(String[] args) {
int[] arr = {64, 34, 25, 12, 22, 11, 90};
System.out.println("\nOriginal Array:");
printArray054(arr);
BubbleSort054.sort(arr);
System.out.println("\nSorted using BubbleSort:");
printArray054(arr);
int[] arr2 = {64, 34, 25, 12, 22, 11, 90};
SelectionSort054.sort(arr2);
System.out.println("\nSorted using SelectionSort:");
printArray054(arr2);
}
private static void printArray054(int[] arr) {
for (int value : arr) {
System.out.print(value + " ");
}
System.out.println();
}
}
input
stderr
Debug Console