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Main.java

```
1- public class ExceptionHandlingExample {
2- public static void main(String[] args) {
3- try{
4  int[]numbers={1, 2, 3};
5  System.out.println(numbers[5]); // This will throw an
   ArrayIndexOutOfBoundsException
6  }
7- catch (ArrayIndexOutOfBoundsException e){
8  System.out.println("An exception occurred " + e.getMessage());
9  }
10 finally
11 {
12 System.out.println("The try catch is finished");
13 }
14 }
15 }
16
```

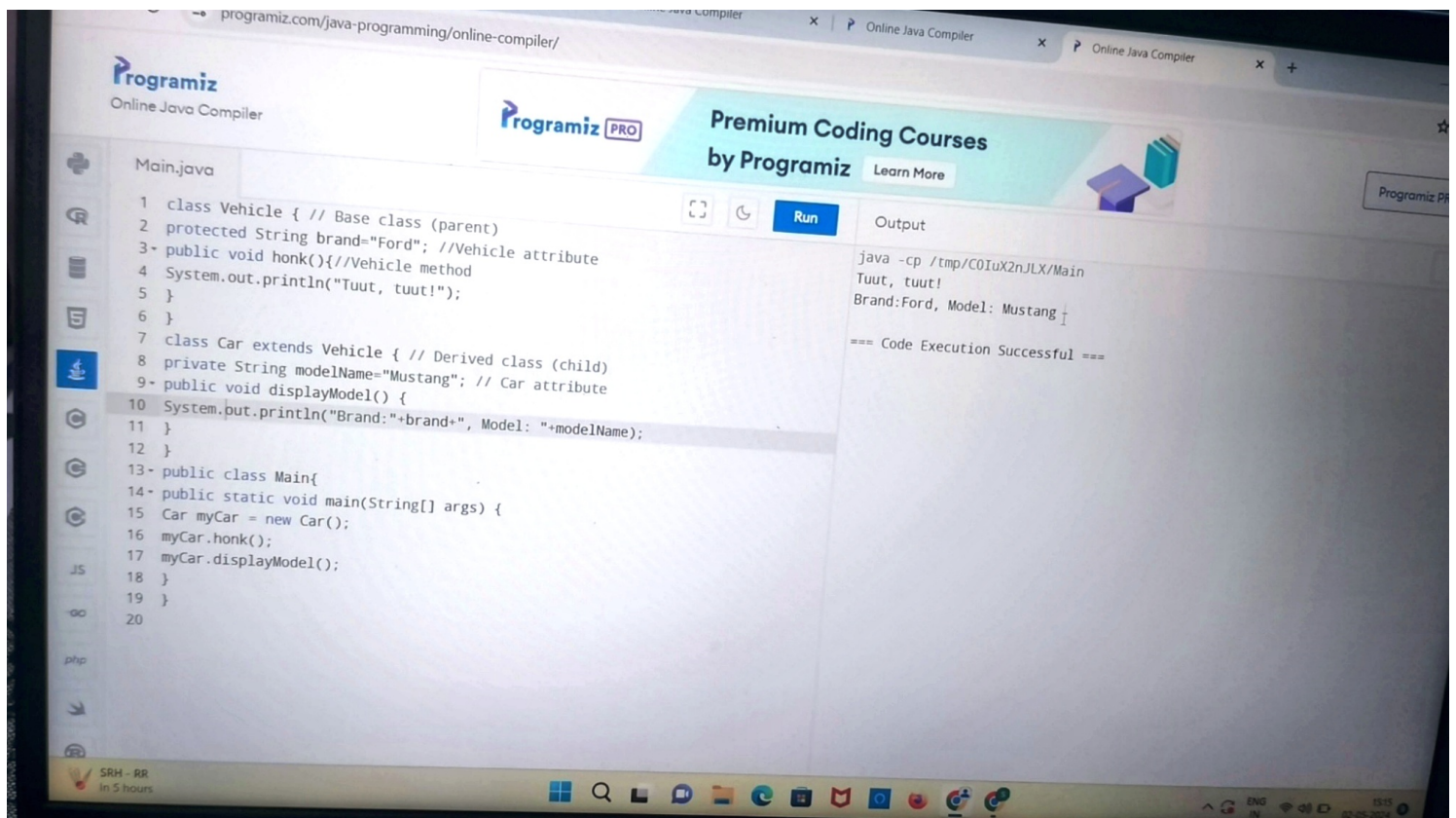
[Run](#)

Output

```
java -cp /tmp/85WI6fpCrz/ExceptionHandlingExample
An exception occurred Index 5 out of bounds for length 3
The try catch is finished

=== Code Execution Successful ===
```

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Main.java

```
1- public class VariableScoppeExample {
2 private static int x=1; // Class variable accessible in whole class
3- public static void main(String[] args) {
4
5 int y=5; // Local variable to main method Systemout.println("Class variable x "
    +x);
6 System.out.println("Class variable x:"+x);
7 System.out.println("Local variable y :"+y);
8 }
9- public static void main(){
10 System.out.println("Class variable x fromsomeMethod: "+x);
11 // Systemout.println("Local variable y from some Method "+y), // Error: y cannot
    be accessed here
12 }
13 }
14
15
```



Run

Output

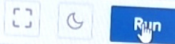
```
java -cp /tmp/0fnWG8ruHT/VariableScoppeExample
Class variable x:1
Local variable y :5
```

```
=== Code Execution Successful ===
```



Main.java

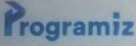
```
1
2 interface Animal {
3 void sound(); //Interface method (does not have a body)
4 }
5 class Dog implements Animal {
6 public void sound() { // The body of sound() is provided here
7 System.out.println("Woof");
8 }
9 }
10 class Cat implements Animal {
11 public void sound() {
12 System.out.println("Meow");
13 }
14 }
15 public class Main {
16 public static void main(String[] args) {
17 Dog myDog = new Dog();
18 Cat myCat = new Cat();
19 myDog.sound();
20 myCat.sound();
21 }
22 }
23
```

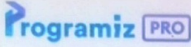



Output

```
java -cp /tmp/JIHd4KJqkK/Main
Woof
Meow
=== Code Execution Successful ===
```



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Main.java



Run

```
1- public class Main {  
2- public static void main(String[] args) {  
3- System.out.println("Hello froma package!");  
4- }  
5- }
```

Output

java -cp /tmp/0dL5YVz6fW/Main  
Hello froma package!  
  
=== Code Execution Successful ===

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Main.java

```
1- public class TypeCasting{
2  public static void main(String[] args)
3- {
4  //Implicit casting (automatic type conversion)
5  int myInt=9;
6  double myDouble = myInt;
7
8
9  System.out.println("Int value: "+myInt);
10 System.out.println("Converted to double: "+myDouble);
11
12
13 //Explicit casting (manual type conversion)
14 double anotherDouble=9.78;
15 int anotherInt = (int) anotherDouble;
16
17
18 System.out.println("Double value:"+anotherDouble);
19 System.out.println("Converted to int: "+anotherInt);
20 }
21 }
22
```

Run

Output

```
java -cp /tmp/nzyiRKi0v1/TypeCasting
Int value: 9
Converted to double: 9.0
Double value:9.78
Converted to int: 9
```

=== Code Execution Successful ===





Main.java

```
1- class Car {
2- private String model;
3- private int year;
4- // Constructor
5- public Car(String model, int year){
6- this.model =model;
7- this.year=year;
8- }
9- public void displayInfo() {
10 System.out.println("Model: "+model+"Year: "+year);
11 }
12 }
13- public class Main {
14- public static void main(String[] args) {
15 Car car1 = new Car("Toyota Corolla", 2020);
16 car1.displayInfo();
17 }
18 }
```



Run

Output

```
java -cp /tmp/W5nviNVqhC/Main
Model: Toyota CorollaYear: 2020
```

```
=== Code Execution Successful ===
```

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Main.java

```
1 class AccessSpecifierDemo {
2     public int publicVar =100; //Accessible from any other class
3     private int privateVar=200; // Accessible only within the class
4     protected int protectedVar =300; // Accessible within the class and by derived
      classes
5     public void display() {
6         System.out.println("Public: " + publicVar);
7         System.out.println("Private: " + privateVar);
8         System.out.println("Protected: "+protectedVar);
9     }
10 }
11 public class Main {
12     public static void main(String[] args) {
13
14         AccessSpecifierDemo demo=new AccessSpecifierDemo();
15         demo.display();
16         System.out.println(demo.publicVar);
17         // System.out.println(demo.privateVar); // Error: Cannot access
18         // System.out.println(demo.protectedVar); // Error: Cannot access outside the
           class without inheritance
19     }
20 }
```

Run

Output

```
java -cp /tmp/ttoyPR9gxC/Main
Public:100
Private: 200
Protected: 300
100
=== Code Execution Successful ===
```





Main.java

```
1 public class Car {
2     // Fields (attributes)
3     private String color;
4     private String model;
5     // Constructor
6     public Car(String color, String model) {
7         this.color=color;
8         this.model=model;
9     }
10    //Method
11    public void display() {
12        System.out.println("Car model: "+model+", Color: "+color);
13    }
14    // Main method to create and use objects of Car class
15    public static void main(String[] args)
16    {
17        Car myCar = new Car("Red", "Toyota Corolla");
18        myCar.display();
19    }
20 }
21
```



Run

Output

```
java -cp /tmp/thwFqQCDxD/Car
Car model: Toyota Corolla, Color: Red
```

```
=== Code Execution Successful ===
```

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Main.java

```
1 class Animal {
2     public void sound() {
3         System.out.println("Some sound");
4     }
5 }
6 class Dog extends Animal {
7     @Override
8     public void sound() {
9         System.out.println("Woof");
10    }
11 }
12 class Cat extends Animal {
13     @Override
14     public void sound() {
15         System.out.println("Meow");
16     }
17 }
18 public class Main {
19     public static void main(String[] args) {
20         Animal myAnimal = new Animal();
21         Animal myDog = new Dog();
22         Animal myCat = new Cat();
23         myAnimal.sound(); // Outputs Some sound
24     }
25 }
26
```

**Run**

**Output**

```
java -cp /tmp/2zjvqqiN0w/Main
Some sound
=== Code Execution Successful ===
```

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