Programiz

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Main.java

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Output

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```java
public class Main {
    public static void main(String[] args) {
        try {
            int[] array = new int[5];
            array[5] = 10; // ArrayIndexOutOfBoundsException

            String str = null;
            System.out.println(str.length()); // NullPointerException

            int num = 10 / 0; // ArithmeticException
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("ArrayIndexOutOfBoundsException: " + e.getMessage
                ());
        } catch (NullPointerException e) {
            System.out.println("NullPointerException: " + e.getMessage());
        } catch (ArithmeticException e) {
            System.out.println("ArithmeticException: " + e.getMessage());
        } catch (Exception e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}
```

```
java -cp /tmp/Yzd8vW4urp/Main
ArrayIndexOutOfBoundsException: Index 5 out of bounds for length 5

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

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```java
class PrimeChecker implements Runnable {
    private int number;

    public PrimeChecker(int number) {
        this.number = number;
    }

    @Override
    public void run() {
        if (isPrime(number)) {
            System.out.println(number + " is a prime number");
        } else {
            System.out.println(number + " is not a prime number");
        }
    }

    private boolean isPrime(int num) {
        if (num <= 1) {
            return false;
        }
        for (int i = 2; i <= Math.sqrt(num); i++) {
            if (num % i == 0) {
                return false;
            }
        }
        return true;
```

```
java -cp /tmp/BiFQstFYiK/Main
15 is not a prime number
19 is a prime number
11 is a prime number
20 is not a prime number
3 is a prime number
17 is a prime number
13 is a prime number
7 is a prime number
5 is a prime number
2 is a prime number

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

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Output

```
        int[] array = new int[n];

        // Initialize the array with values
        for (int i = 0; i < n; i++) {
            System.out.println("Enter number " + (i + 1) + ": ");
            array[i] = scanner.nextInt();
        }

        try {
            int sum = findSum(array, n + 1); // Try to access beyond the array
                size
            System.out.println("Sum of the numbers: " + sum);
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }

    public static int findSum(int[] array, int n) {
        int sum = 0;
        for (int i = 0; i < n; i++) {
            sum += array[i];
        }
        return sum;
    }
}
```

```
java -cp /tmp/oZ3viky3Yh/Main
Enter the size of the array (N):
3
Enter number 1:
2
Enter number 2:
2
Enter number 3:
2
ERROR!
Error: Index 3 out of bounds for length 3

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