

Main.java



Run

```
1 public class Main {
2     public static void main(String[] args) {
3         try {
4             int[] array = new int[5];
5             array[5] = 10; // ArrayIndexOutOfBoundsException
6
7             String str = null;
8             System.out.println(str.length()); // NullPointerException
9
10            int num = 10 / 0; // ArithmeticException
11        } catch (ArrayIndexOutOfBoundsException e) {
12            System.out.println("ArrayIndexOutOfBoundsException: " + e.getMessage());
13        } catch (NullPointerException e) {
14            System.out.println("NullPointerException: " + e.getMessage());
15        } catch (ArithmeticException e) {
16            System.out.println("ArithmeticException: " + e.getMessage());
17        } catch (Exception e) {
18            System.out.println("Error: " + e.getMessage());
19        }
20    }
21 }
```

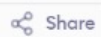
Output

Clear

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

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

Main.java



Run

Output

Clear

```
1+ class PrimeChecker implements Runnable {
2     private int number;
3
4+     public PrimeChecker(int number) {
5         this.number = number;
6     }
7
8     @Override
9+     public void run() {
10+         if (isPrime(number)) {
11             System.out.println(number + " is a prime number");
12+         } else {
13             System.out.println(number + " is not a prime number");
14         }
15     }
16
17+     private boolean isPrime(int num) {
18+         if (num <= 1) {
19             return false;
20         }
21+         for (int i = 2; i <= Math.sqrt(num); i++) {
22+             if (num % i == 0) {
23                 return false;
24             }
25         }
26         return true;
27     }
28 }
```

```
^ 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
```

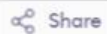
```
7 is a prime number
```

```
5 is a prime number
```

```
2 is a prime number
```

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

Main.java



Run

Output

```
8
9  int[] array = new int[n];
10
11 // Initialize the array with values
12 for (int i = 0; i < n; i++) {
13     System.out.println("Enter number " + (i + 1) + ": ");
14     array[i] = scanner.nextInt();
15 }
16
17 try {
18     int sum = findSum(array, n + 1); // Try to access beyond the array
19                                     size
20     System.out.println("Sum of the numbers: " + sum);
21 } catch (ArrayIndexOutOfBoundsException e) {
22     System.out.println("Error: " + e.getMessage());
23 }
24
25 public static int findSum(int[] array, int n) {
26     int sum = 0;
27     for (int i = 0; i < n; i++) {
28         sum += array[i];
29     }
30     return sum;
31 }
32 }
```

```
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 ===
```