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# WT Lab09

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## **Question 1**

Write a Java program to generate an ArrayIndexOutofBoundsException and handle it using catch statement

#### Solution

```
import java.util.Arrays;

public class Q1 {
    public static void main(String[] args) {
        int[] arr = new int[]{234,43,45};
        try {
            System.out.println(arr[0]);
            System.out.println(arr[arr.length]);
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println(e);
        } finally {
            System.out.println(Arrays.toString(arr));
        }
    }
}
```

## Output

## Question 2

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A subclass exception must appear before super-class exception. Justify this with suitable Java programs

#### Solution

### Output

```
"C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\Int
0.0
    java.lang.ArithmeticException: / by zero
    java.lang.ArithmeticException Create breakpoint: / by zero
    at Q2.main(Q2.java:7)

Process finished with exit code 0
```

## Question 3

Write a Java program to illustrate try..catch..finally block

#### Solution

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```
}
} catch (ArithmeticException e) {
    e.printStackTrace();
} catch (NullPointerException e) {
    e.printStackTrace();
} catch (Exception e) {
    e.printStackTrace();
} finally {
    System.out.println("Exception is handled");
}
}
```

## Output

```
System.out.println("

□ Q3 ×

□ "C:\Program Files\Java\jdk-17\bin\java.exe" "-javaagent:C:\Program Files
java.lang.ArithmeticException Create breakpoint: / by zero
at Q3.main(Q3.java:7)

Exception is handled

□ Process finished with exit code 0
```