

PROGRAM

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```
class Main {  
    public static void main(String[] args) {  
        try {  
            int divideByZero = 5 / 0;  
        }  
  
        catch (ArithmeticException e) {  
            System.out.println("ArithmeticException => " + e.getMessage());  
        }  
  
        finally {  
            System.out.println("This is the finally block");  
        }  
    }  
}
```

PROGRAM 2

```
import java.io.*;  
  
class Main {  
    public static void findFile() throws IOException {  
  
        File newFile = new File("test.txt");  
        FileInputStream stream = new FileInputStream(newFile);  
    }  
  
    public static void main(String[] args) {
```

```

try {
    findFile();
}
catch (IOException e) {
    System.out.println(e);
}
}
}

```

PROGRAM 3

```

import java.util.*;

public class Main {

    static List<String> list = new ArrayList<String>();

    public static void main(String args[]) throws Exception
    {
        Integer[] array = new Integer[100000 * 100000];
    }
}

```

PROGRAM 4

```

class Main {

public static void main(String args[])

{

    try {

        //define two numbers

        int num1 = 100, num2 = 0;

        int result = num1 / num2; // divide by zero

        //print the result

        System.out.println("Result = " + result);
    }
}
}

```

```
}  
catch (ArithmeticException e) {  
    System.out.println("ArithmeticException:Division by Zero");  
}  
}  
}
```