

## Checked Error

### 1.FileNotFoundException

```
import java.io.File;
import java.io.FileReader;
```

```
public class home {
    public static void main(String[] args) {
        File file = new File("hello.txt");
        FileReader fr = new FileReader(file);
    }
}
```

error : Unhandled exception type FileNotFoundExceptionJava(16777384)  
java.io.FileReader.FileReader(File file) throws FileNotFoundException

### 2.IOException

```
import java.io.BufferedReader;
import java.io.FileNotFoundException;
import java.io.FileReader;
```

```
public class home {
```

```
    public static void main(String[] args) throws FileNotFoundException {
        BufferedReader br = new BufferedReader(new FileReader("hello.txt"));
        String line = br.readLine(); //error:Unhandled exception type
IOExceptionJava(16777384) String java.io.BufferedReader.readLine() throws
IOException
    }
}
```

### 3.ClassNotFoundException

```
public class home {
    public static void main(String[] args) throws ClassNotFoundException {
        Class.forName("hello"); //error:Exception in thread "main"
java.lang.ClassNotFoundException: hello
    }
}
```

### 4.ParseException

```
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
```

```
class home {
    public static void main(String[] args) {
        try {
            String dateString = "date";
```

```

        SimpleDateFormat formatter = new SimpleDateFormat("dd-MM-yyyy");
        Date date = formatter.parse(dateString); //error:Exception in thread
"main" java.text.ParseException: Unparseable date: "date"
        System.out.println("Parsed Date: " + date);
    } catch (ParseException error) {
        System.out.println("ParseException occurred: " + error.getMessage());
    }
}
}

```

## 5. MalformedURLException

```

import java.net.MalformedURLException;
import java.net.URL;

class home {
    public static void main(String[] args) {
        try {
            URL url = new URL("url"); //MalformedURLException occurred: no
protocol:url
        } catch (MalformedURLException error) {
            System.out.println("MalformedURLException occurred: " +
error.getMessage());
        }
    }
}

```

## Unchecked Error

### 1. ArithmeticException

```

class home {
    public static void main(String[] args) {
        try {
            int result = 1 / 0; //error:ArithmeticException occurred: / by zero
        } catch (ArithmeticException error) {
            System.out.println("ArithmeticException occurred: " +
error.getMessage());
        }
    }
}

```

### 2. NullPointerException

```

class home {
    public static void main(String[] args) {
        try {
            String str = null;
            System.out.println(str.length()); //error:NullPointerException occurred:

```

```

Cannot invoke "String.length()" because "<local1>" is null
    } catch (NullPointerException error) {
        System.out.println("NullPointerException occurred: " +
error.getMessage());
    }
}
}

```

### 3.ArrayIndexOutOfBoundsException

```

class home {
    public static void main(String[] args) {
        try {
            int[] arr = new int[5];
            System.out.println(arr[10]); //error:Index 10 out of bounds for length 5
ArrayIndexOutOfBoundsException
        } catch (ArrayIndexOutOfBoundsException error) {
            System.out.println("ArrayIndexOutOfBoundsException occurred: " +
error.getMessage());
        }
    }
}

```

### 4.NumberFormatException

```

class home {
    public static void main(String[] args) {
        try {
            String str = "abc";
            int num = Integer.parseInt(str); //error:NumberFormatException
occurred: For input string: "abc"
        } catch (NumberFormatException error) {
            System.out.println("NumberFormatException occurred: " +
error.getMessage());
        }
    }
}

```

### 5.IllegalArgumentException

```

class home {
    public static void main(String[] args) {
        try {
            int age = -5;
            if (age < 0) {
                throw new IllegalArgumentException("Age cannot be negative");//
error:IllegalArgumentException
            }
        }
    }
}

```

```
        } catch (IllegalArgumentException error) {  
            System.out.println("IllegalArgumentException occurred: " +  
error.getMessage());  
        }  
    }  
}
```