## **Checked Error:**

## 1.IOException

```
import java.io.BufferedReader;
import java.io.FileNotFoundException;
import java.io.FileReader;
public class IOException {
public static void main(String[] args) throws FileNotFoundException {
BufferedReader br = new BufferedReader(new FileReader("Exceptions.txt"));
String line = br.readLine(); //error:Unhandled exception type
IOExceptionJava(16777384) String java.io.BufferedReader.readLine() throws
IOException
}
{\bf 2. File Not Found Exception}
import java.io.File;
import java.io.FileReader;
public class FileNotFound {
public static void main(String[] args) {
File file = new File("Exceptions.txt");
FileReader reader = new FileReader(file);
}
}
error: Unhandled exception type FileNotFoundExceptionJava(16777384)
java.io.FileReader.FileReader(File file) throws FileNotFoundException
3.SQLException
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
public class SQLException {
public static void main(String[] args) {
String jdbcUrl = "jdbc:mysql://localhost:3000/users";
```

```
String username = "root";
String password = "password";
String createTableSQL = "CREATE TABLE IF NOT EXISTS users (" +
"id INT PRIMARY KEY," +
"name VARCHAR(255)," +
"email VARCHAR(255)"; //Invalid table format
try (Connection connection = DriverManager.getConnection(jdbcUrl, username, password);
Statement statement = connection.createStatement()) {
statement.executeUpdate(createTableSQL);
                                             // Attempt to execute the SQL statement to create the
System.out.println("Table 'users' created successfully.");
} catch (SQLException e) {
System.out.println("SQLException occurred: " + e.getMessage());
}
}
4.NoSuchMethodException
import java.lang.reflect.Method;
public class NoSuchMethodException {
public static void main(String[] args) {
try {
Method method = ExampleClass.class.getMethod("doSomething");
method.invoke(new ExampleClass());
} catch (NoSuchMethodException e) {
System.out.println("NoSuchMethodException occurred: " + e.getMessage());
} catch (Exception e) {
System.out.println("An unexpected exception occurred: " + e.getMessage());
}
}
}
class ExampleClass {
public void doSomething() {
                                      //if doSomething is missing, it invokes NoSuchMethod Exception
```

```
System.out.println("Doing something...");
}
}
5. Class Not Found Exception
public class ClassnotFound {
public static void main(String[] args) throws ClassNotFoundException {
Class.forName("hello"); //error:Exception in thread "main"
java.lang.ClassNotFoundException: hello
}
}
Unchecked Error
1.NullPointerException
class NullPointerExample {
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());
}
}
2.ArithmeticException
class ArthmeticExample {
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());
}
```

```
}
}
3. ArrayIndexOutofBoundsException
class ArrayOutOBExample {
public static void main(String[] args) {
try {
int[] arr = new int[5];
                             //error:Index 10 out of bounds for length 5
System.out.println(arr[10]);
ArrayIndexOutOfBoundsException
} catch (ArrayIndexOutOfBoundsException error) {
System.out.println("ArrayIndexOutOfBoundsException occurred: " + error.getMessage());
}
}
}
4. Unsupported Operation Exception
public class UnsupportedOperationExample {
public static void main(String[] args) {
List<String> immutableList = List.of("apple", "banana", "cherry");
immutableList.add("date");
                               //UnsupportedOperationException occurred: Unsupported operation: List
is immutable
} catch (UnsupportedOperationException e) {
System.out.println("UnsupportedOperationException occurred: " + e.getMessage());
}
}
}
5.IllegalArugmentException
class BMI {
public static void main(String[] args) {
try {
int height = -5;
if (height < 0) {
throw new IllegalArgumentException("height cannot be negative");
                                                                      //error:IllegalArgumentException
```

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