

## Exception Handling

Date	17 November 2022
Team ID	PNT2022TMID17213
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

### Exception Handling :

- The **Exception Handling** is one of the powerful *mechanism to handle the runtime errors* so that the normal flow of the application can be maintained.
- In this tutorial, we will learn about Java exceptions, it's types, and the difference between checked and unchecked exceptions.

### What is Exception :

- Exception is an abnormal condition.
- In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime.

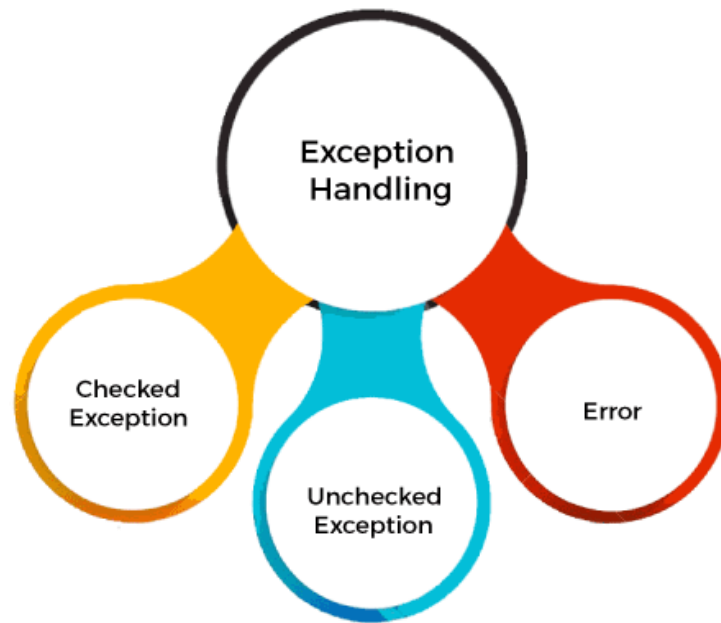
### What is Exception Handling:

- Exception Handling is a mechanism to handle runtime errors such as `ClassNotFoundException`, `IOException`, `SQLException`, `RemoteException` ,etc.

## **Types of Java Exceptions :**

- There are mainly two types of exceptions: checked and unchecked. An error is considered as the unchecked exception. However, according to Oracle, there are three types of exceptions namely:

1. Checked Exception
2. Unchecked Exception
3. Error



## **Hierarchy of Java Exception classes :**

- The `java.lang.Throwable` class is the root class of Java Exception hierarchy inherited by two subclasses: `Exception` and `Error`. The hierarchy of Java Exception classes is given below:

