## **EXCEPTION HANDLER IN JAVA**

Excepiton: In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime.

Exception hadnling: The Exception Handling in Java is one of the powerful mechanism to handle the runtime errors so that normal flow of the application can be maintained.

Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IOException, SQLException, RemoteException, etc. Example for exception handling in Java:

```
public class JavaExceptionExample{
  public static void main(String args[])
  {
    int a = 10;
    try
    {
      int z= a/0;
    }
    catch(ArithmeticException e)
    {
        System.out.println(e);}
    }
}
```

# Types of Java Exceptions:

- 1. Checked Exception
- 2. Unchecked Exception

- 1. Checked Exception: The classes which directly inherit Throwable class except RuntimeException and Error are known as checked exceptions e.g. IOException.. Checked exceptions are checked at compile-time.
- 2. Unchecked Exception: The classes which inherit RuntimeException are known as unchecked exceptions e.g. ArithmeticException, ArrayIndexOutOfBoundsException etc. Unchecked exceptions are not checked at compile-time, but they are checked at runtime. Java exception keywords:
  - 1. try
  - 2. catch
  - 3. fanally
  - 4. throw
  - 5. throws

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