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1 (Exception Handling:-)

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

such as classNotFoundExceptPon, 10ExceptPon, SQLExceptPon, Remote ExceptPon etc

Advantage of Exception - Handling

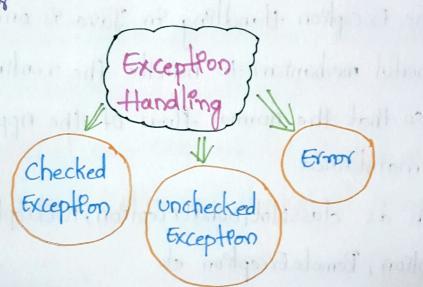
The core advantage of Exception handling is. to maintain the normal flow of the application An exception normally disrupts the normal flow of the application.

The Java lang. Throwable class 9s the root class of Java Exception hierarchy inherited by two classes.

## Types of Java Exceptions:

- 1 checked ExceptPon
- Bunchecked Exception
- 3 Error

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## Checked Exception:

The classes that alrectly inherit. The throwable class except Runtime Exception and Error are Known as checked exceptions.

for Example: 10 Exception, SQLException etc. checked Exceptions are checked at complèle time

the control hammen pales of a the street

## Unchecked Exception:

The classes that Phhent the Runtime Exception are known as unchecked exceptions.

for Example: Anthometic Exception, Nullpointer Exception Array Index out of Bounds Exception, etc.

unchecked exceptions are not checked at compile time, but they are checked at runtime.

Error:

Error 9s Priecoverable

Some Example of errors are outofmemory From,

VPritual Machinetrion, Assertion From etc.

Java Exception Keywords

Java Exception Keywords are 5 fypes

\* try

\* Catch

\* finally

```
* Home
                         infining Ladader
  * throws.
Example on using Handling Anthometic Exception.
 public class Example &
   public static void main (string [Jargs]
    Put devedend =10;
    Pat devisor =0;
   try {
     Port result = davidend davisor;
    System. out. println (" Result:"+ result);
    catch (Arthmetic Exception e) &
    System.out. printin ("An Arthmetic Exception occured!"
       + e.getMessage());
```

```
Example on using finally:
 9mport gava. Po. Buffered Reader;
 9mport gava. 90. File Reader;
 Import Pava. Po. 10 Exception;
 Public class Example & ..
· public static void main (string (7 args) &
     Buffered Reader reader = null;
      reader = new Buffered Reader (new File Reader
                   ("Example txt"));
      String line;
      while ((Ine = reader. readline ()) = null)
   system.out.println (IPne);
  3 Catch ( 10 Exceptron e) }
  system. out: printin ("An lotxception occurred: "+e.get
```

message ();

```
fenally &
try &
            . . . H . Had solvery brown
 of (reader = null) &
                  robatill our out thron
     reoder, close();
 3 catch (IDException e) {
 System. out. prently ("Error closing the reader:"
   +e.getmessage());
        way what looked and who c
          11(" Ixtelymon M)
  Other of the solling water and golden
               ford all the decided
```