

Assignment - 4

* Exception Handling:-

* Exception:-

- Run time error
- Abnormal condition

* Exception Handling:-

- Handle runtime error
- Maintain normal flow of application

* Types of Exception:-

- 1) compile time exception
- 2) Runtime exception
- 3) checked exception
- 4) unchecked exception

* Types of Error:-

- 1) Syntax error
- 2) Logic error

* Five key words:-

- 1) Try
- 2) catch

Syntax :-

try

{

// statement laws on exception

}

catch

{

// Error handling code

}

finally

{

// code executed before try block

}

* Exception Types :-

→ Java has a hierarchy of ~~ex~~ exception types.

The root of this hierarchy is `java.lang.Throwable`

which has subtypes

→ `java.lang.Error`.

→ `java.lang.exception`

→ Runtime Java

→ `SQL exception`.

Example :

1) try {

int result = 5/0;

}

catch (ArithmeticException e)

{

System.out.println("An Arithmetic Exception occurred.")

}

2) Handling Null Pointer Exception :-

try {

String str = null;

int length = str.length();

}

catch (NullPointerException e)

{

System.out.println("A NullPointerException occurred.")

}