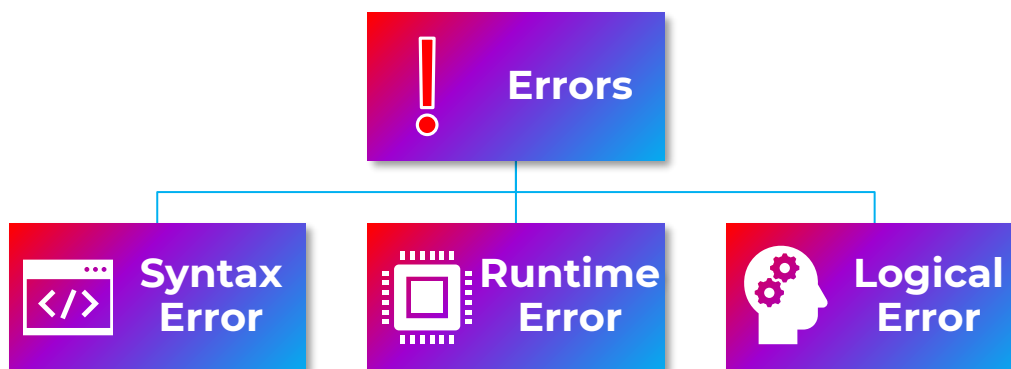




Java Notes

ERRORS IN JAVA !

FROZENNOTES - COLORFUL EDITION



Types of Errors (Icons are for illustration purposes only. FrozenNotes cannot be held liable for incorrect representation)

Details and Examples:

1. Syntax Errors (A.K.A Compile Time Error) `</>`

Errors which prevent a code from execution due to **incorrect syntax** are called Compile Time Errors. These may include mistakes like missing semicolon, missing brackets, grammatical mistakes and more...

Example:

```
1. System.out.print("Hello") //Missing semicolon
2. public stat void hello(){System.out.println("Hello World!");} //Missing brackets & grammatical
3. int a=7, b=5;
4. z=a+b; //uninitialized variable z
```

2. Runtime Errors

Errors which are **detected** during the **execution** of the program. Runtime errors occur when a program does not contain any syntax errors but asks the computer to do something that the computer is **unable to reliably do**.



Example:

```
1. int a=248, b=0, c=0;
2. c=a/b; //Division by 0 is not possible
```

3. Logical Errors

Error occurred when the program **does not perform** the **expected** function and yields a different result. These programs get **successfully compiled** and executed but gives a **different** result then what is expected.

Example:

```
1. int a=34, b=7, c=0; c=a/b; //Incorrect operator
2. System.out.println("The reminder of a divided by b is "+c+" and I'm
confident about it");
```

Infinite Loop

A sequence of statements which **iterates indefinitely** until the system crashes or the execution is terminated. These are encountered/occur when the given **terminating condition** is not **satisfied**.

Example:

```
1. for(i=0; i<1; i--){
2.     System.out.println("Ah! I won't stop, do whatever you can but please don't
    terminate!");
3. }
```

Quick Notes (Missing Notes)

Difference between == and equals()

==	equals()
== is a relational operator	equals() is a String class function
== can be used for all type of data except Strings	Equals() can only be used for Strings

© COPYRIGHT

FrozenNotes (ICSE Computer Applications) Java Notes © 2023 by FROZENNOTES is licensed under Attribution-NonCommercial-ShareAlike 4.0 International

Report issues and suggestions: sanjayrohith@outlook.com



FROZENNOTES

