JAVA NOTES

# Basic Keywords :

## Identifiers :

A name in java program is called identifiers. It may be variable name, class name, method name, and label name.

Ex -> class Test {

Public static void main(String [] args){

Int x = 10;

}

}

Note : the underlined words are idenifiers.

## Rules To Define Java Identifiers ->

* RULE 1 : the only allowed characters in java identifiers are –
* a to z
* A TO Z
* 0 to 9
* \_ (underscore)
* $ (dollar)
* RULE 2 : if we are using any other character then we get compiler time error.
* Total\_number……….valid
* Total#...........invalid
* RULE -3: identifiers are not allowed to start with digits.
* ABC123……..VALID
* 123ABC………INVALID
* RULE 4 : java identifiers are case sensitive up course java language itself treated as case sensitive language.
* EX -> class Test{

Int number=10;

Int Number=20;

Int NUMBER=30;

Int NuMbEr=40;

}

* RULE 5 : there is no length limit for java identifiers but it is not recommended to take more than 15 lengths.
* RULE 6 : we can not use reserved words as keywords.
* EX -> int if=10;………..invalid
* RULE 7 : all predefined java class names and interface names we use as identifiers.
* EX -> class Test{

Public static void main(String[] args){

Int String=10;

System.out.println(String);

}

}

// OUTPUT = 10

* EX -> class Test {
* Public static void main(String[] args){

Int Runnable=10;

System.out.println(Runnanle);

}

}

// OUTPUT = 10

## RESERVED KEYWORDS –

In java some identifiers are reserved to associate some functionality or meaning such type of reserved identifiers are called reserved keywords.

**Reserved words for data types are : (8)**

* **Int - byte - short - double**
* **Float - char - long - Boolean**

**Reserved words for flow control are : (11)**

* **If - switch - default - do**
* **Break - return - else - case**
* **For - while - continue**

**Keywords for modifiers are (11)**

* **Public - protected - final - synchronized - strictfp(1.2 version)**
* **Volatile - private - static - abstract - native - transient**

**Keywords for exception handling (6)**

* **Try - catch - finally**
* **Throw - throws - assert(1.4 version)**

**Class related keywords (6)**

* **Class - package - import**
* **Extends - implements - interface**

**Object related keywords (4)**

* **New - instance of**
* **Super - this**

**Void return type keywords :**

If a method won’t return anything compulsory that methods should be declared with the void return type in java but it is optional in c++.

**Unused Keywords** : goto : create several problem in old language and hence it is banned in java.

Const : use final instead of this.

By mistake if we are using these keywords in our program we will get compile time error.

**Reserved Literals :**

* **True value for Boolean data types.**
* **False**
* **Null……………default value for object reference.**

**Enum :** this keywords introduced in 1.5 version to define a group of named constraints.

EX -> byte b=10;

Byte b2=130;

Byte b=true;

Byte b=tanya;