

What is the difference between **Statically typed language** and **Dynamically typed language** ?

Statically Typed Language :

- The languages where **data type is compulsory** before the initialization of a variable is called Statically typed language.

- In these languages, there are define the data type then the variable will hold same kind of value and the type of the variable.

```
int x = 10;
x = 20; //Valid
x = 20.5; //Error
```

Example of Statically typed language :

- C, C++, C#, Java, JavaScript.

Dynamically Typed Language :

- The languages where data type is not compulsory and it is optional is called Dynamically typed language.

- In dynamically typed language, we can assign different types of values to same variable.

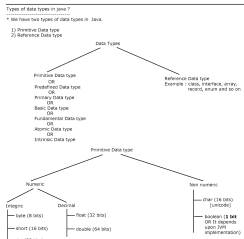
```
int x = 10; //Integer
x = true; //Boolean
x = "10"; //String
```

Example of Dynamically typed language :

- JavaScript, Python, Ruby, PHP, Perl, etc.

Types of Data types in java :

- 1) Primitive Data type
- 2) Reference Data type



Some points :

- 1) There are 8 primitive data types.

- 2) Among these 8 primitive data types, 6 data types represents numeric value.

- 3) 4 data types (byte, short, int and long) represents integer type.

- 4) 2 data types (float and double) represents decimal type.

What is concept in java 1.5 new many types of generics we have in java 1.5

- 1) Generics are used to enhance the readability of the code.

- 2) Java 1.5 has 3 types of generics :

- 1) Single type generics (E) ----- (V)

- 2) Multiple Generics (E1, E2, ..., E5) ----- (V1, V2, ..., V5)

- 3) Parameterized Generics

```
class Example {
    static void main(String[] args) {
        System.out.println("Welcome to Java, Batch 47 and 48");
    }
}
```

Notes of this Project : (Double Click System)

Class : Example, File : Main.java

Number of Methods : 2

Author : (Name of the student)

Date : (Date of the project)

Version : (Version of the project)

File Modification : (Date of the project)

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