## Java Variable and Data types

## Q1-What is statically type and Dynamically typed programming language?

**Ans-** Dynamically typed language performs type checking at runtime .

**Ex:-** Java is a dynamically type language Int number; number=10;

While Statically type performs type checking at compile time. **Ex:-** Python is a statically type language. number=10;

## Q2-What is variable in java?

**Ans-**A variable in java a data container that store the data values during java program execution.

### There are types of variables in java.

- 1.Instance variable
- 2.Local Variable
- 3.Static variable

## Q3-How to assign a value to variable?

**Ans-**First create a variable name of type(datatype), and assign it the value whose type we want.

#### Ex- int number=10;

Here, int is a data type and number is a variable of int data type and 10 is the value who is assigned in the number variable.

## Q4- What are primitive Data types in Java?

Ans-There are 8 primitive data types-

- **1).** Byte
- **2)**. Short
- **3).** int
- **4).** long

- **5).** float
- 6). double
- 7). Boolean 8). char.

## Q5-What are the identifiers in Java?

**Ans-**Identifiers in java are symbolic names used for identification. They can be class name, variable name, method name, package name etc.

## There are some rules for creating identifiers.

- **1.** A valid identifier must have characters [A-Z] or [a-z] or numbers [0-9], and underscore(\_) or a dollar sign (\$). for example, @javatpoint is not a valid identifier because it contains a special character which is @
- **2.**There should not be any space in an identifier. Example- java **tpoint** is an invalid identifier.
- **3.**An identifier should not contain a number at the start. Example- **123javatpoint** is an invalid identifier.

### **Q6-List the operator in Java?**

## Ans-These are some operators in java-

- **1.)** Arithmetic Operator
- 3.) Logical Operator
- **5.)** Unary Operator
- **7.)** Bitwise Operator
- 2). Assignment Operator
- 4). Relational Operator
- **6).** Ternary Operator
  - 8). Shift Operator

# Q7-Explain about Increment and Decrement operator and given an example.

**Ans-**The operator (++) and the operator (--) are Java's increment and decrement operators. The increment (++) and decrement operator (--) are simply used to increase and decrease the value by one.

## There are two types of increment and decrement.

- 1.) Pre-Increment and Pre-Decrement.
- 2.) Post-Increment and Post-Decrement.

## **Example:-**

```
System.out.println("after post-decrement=" + temp3);

System.out.println("after post-decrement=" + temp4);

System.out.println("after post-decrement=" + number);

}

public class test { public static void main(String[]

args) { increment i = new increment();

i.result_increment(7);

i.result_decrement(7);

}
```