

# Java Variables and Data types

## Assignment Questions

### 1) What is statically typed and dynamically typed programming language?

The language in which, the programmer needs to define the data type in the variable declaration itself is called the statically / strongly typed programming language means the data type should be present at runtime. And the languages in which compiler automatically understands and takes the data type according to variable declaration is called dynamically typed language like python.

### 2) What is the variable in Java?

The variables are the containers for storing the data.

### 3) How to assign a value to a variable?

To assign a value to a variable assignment operator is used, like `int a = 45;`

### 4) What are primitive data types in Java?

Primitive data types are predefined data types in Java like byte, short, int, long, float, double, char, boolean etc...

### 5) What are the identifiers in Java?

Identifiers are the unique names which are assigned to data.

### 6) List the operators in Java

Addition, subtraction, multiplication, division, modulo etc..

### 7) Explain about increment and decrement operators and give examples

These operators either increment or decrement the values according to our needs  
`int a = 5;`

Pre increment : `++a`; (first increment the value and then stores it)

Pre decrement : `--a`; (first decrement the value and then stores it)

Post increment : `a++`; (first stores the value and then increments)

Post decrement : `a--`; (first stores the value and then decrements)

Example: `int b = a++ + ++a + --a;` o/p -> `a = 6 & b = 18`