

# Java Variables and Data types

## 1. What is statically typed and dynamically typed programming languages?

**Ans.** Statically typed: If the memory of the variable is given during the compilation time itself then such types of programming languages are called as “Statically typed”.

Eg: C,C++,Java

Dynamically typed: If the memory of the variable is given during the execution time itself then such types of programming languages are called “dynamically typed”.

Eg: Python,PHP,JavaScript

## 2.What is the variable in JAVA?

**Ans.** A variable in JAVA is a container that stores data values. It is referred to as the name of the memory location. Each variable should be given a unique name to indicate the storage area.

Syntax for Declaring a Variable: Type variable\_name [= value];

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

**Ans:** We use assign operator (=) to assign a value to a variable. For Example,

```
number = 10;  
name = "Rizwan";  
Event = true;
```

We can assign a value to a variable for n number of times, but the previous value will be overwritten.

## 4. What are Primitive Data types in Java?

**Ans:** byte, short, int, long, float, double, String,char, boolean.

## 5. What are the Identifiers in Java?

**Ans:** Identifiers in Java are symbolic names used for identification. They can be a class name, variable name, method name, package name, etc . However, In Java , There are some reserved words that can not be used as an identifier.

## 6. List the Operators in Java?

**Ans:** →Operators in Java

- Arithmetic Operator
- Relational Operator
- Logical Operator
- Assignment Operator
- Unary Operator
- Bitwise Operators.

## 7. Explain about Increment and Decrement operators and give examples?

**Ans:** Increment and Decrement Operators in Java are used to increase or decrease the value by 1. For example, Incremental operator ++ is useful to increase the existing variable value by 1 (i = i + 1). Moreover, the decrement operator -- is useful to decrease or subtract the current value by 1 (i = i – 1). The syntax of both increment and decrement operators in Java Programming to prefix or postfix is

—Increment Operator ++x or x++

—Decrement Operator --x or x-.

