

# Java Variables and Data Types Assignment

## Assignment Solution -:

### Q1. What is statically typed and Dynamically typed Programming Language?

**Ans . Static typing** is a typing system where variables are bound to a data type during compilation. Once a variable is assigned a data type it remains unchanged throughout the programs execution.

**Dynamic typing** allows variables to be bound to data types at runtime instead of during compilation. This flexibility enables concise code and ease of use.

### Q2. What is the variable in Java ?

**Ans.** Variables are container for storing data values.

### Q3. How To Assign a Value To Variable?

**Ans .** `int variable = 5;`

### Q4. What are Primitive Data types in Java?

**Ans.** Primitive data structures are simple and predefined types like integers and booleans, used for basic data storage.

### Q5. What are the identifiers in Java?

**Ans.** All Java variables must be identified with unique names.

### Q6. List the Operators in Java?

- **Ans.** Arithmetic Operators.
- Ternary Operators.
- Bitwise Operator.
- Relational Operators.
- Logical Operators.
- Unary Operators.
- Assignment Operator.
- Shift Operator in Java.
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### Q7. Explain about Increment and Decrement operators and give an examples

**Ans.** The e increment (++) and decrement (--) operators are unary operators in Java, which means they operate on a single operand. They are used to increase or decrease the value of an integer, floating-point, or character variable by 1. These operators can be applied in two ways: prefix and postfix.

### **Prefix Increment and Decrement Operators**

```
++ variable;  
-- variable';
```

### **Postfix Increment and Decrement Operators**

```
variable++;  
variable --;
```