

Assignment-5

1] What is statically typed and Dynamically typed Programming Language?

A] In statically typed programming language, we specify the datatype of a variable whereas in dynamically typed programming language, there is no need of mentioning the datatype

2] What is the variable in Java?

A] variable is the name of the memory allocated space in java

3] How to assign a value to variable?

A] We use an assignment operator ~~called~~ "=" to assign a value to a variable

4] What are primitive datatypes in Java?

A] Primitive datatypes are predefined in Java such as byte, short, int, long, float, double, char and boolean

5] What are identifiers in Java?

A] Identifiers are the names of classes, variables and methods in Java, these are generally user defined

6] List the operators in Java

A] → Arithmetic operator
→ Relational operator
→ Logical operators
→ Assignment operator
→ unary operator
→ Bitwise operators

7] Explain about Increment and decrement operators and give examples

A] Increment operators:- These operators are generally used to Increase a given value and return it back to the assigned memory slot

Decrement operators:- These operators are generally used to decrease a given value and return it back to the assigned memory slot

Eg:- Increment operators
Case 1:-
`int a = 10;`
`int b = a++`

here initially value of a is 10

but after increasing it will become 11
and value of b will be 10 itself as it is a++
[we use a value first and then increase it latter]

Case 2:-
`int a = 10;`
`int b = ++a;`

here initially value of a is 10

but after increasing it will become 11

and the value of b here will change as we are increasing it first and then using the a value

i.e `a = 11`
`b = 11`

Decrement operators

Case 1:-

`int a = 4;`
`int b = a--`

here, initially the value of a is 4 but then after decreasing it'll be

3

B value will be 4 itself as it is $a--$

[we use a value then decrease]

Case 2^o -
 $\text{int } a = 4;$
 $\text{int } b = --a$

a value will be 3 as we will decrease

b value we will decrease first and then take it
as b value so $b = 3$