

## #variable Initializing Statements:

Assigning values to the variable is known as variable initializing statements/initialization.

Syntax: data-type variableName = value;  
OR  
variableName = value;

Eg:

```
class Variable1
{
```

```
    public static void main (String args[])
    {
```

//variable ~~for~~ declaration

String name;

byte age;

char grade;

float salary;

long phno;

//variable initialization.

name = "Ujjwal";

grade = 'z';

salary = 5000.0f;

phno = 1234567890;

age = 22;

§

§

System.out.println("name + "\n" + grade + "\n" +  
salary + "\n" + phno + "\n" + age);

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## # variable Declare & initialization Statement:

Declaring variable & Storing value Simultaneously.

Syntax:

`data_type variableName = value;`

Eg:→

```
class Variable2
{
```

```
    public static void main (String args[])
    {
```

```
        String name = "ujjwal";
```

```
        double Salary = 5000.0;
```

```
        byte age = 22;
```

```
        long phno = 9876543210;
```

```
        char grade = 'Z';
```

```
        System.out.print (name + "\n" + salary + "\n" +
        age + "\n" + phno + "\n" + grade);
```

```
    }
```

```
}
```

## # Types of variables:→

Types of variables

Local  
variables

Global/  
variables

Static  
variables

Non-Static  
variables

theory after two pages →



↓  
variables of two types:

① Local variables

② Global variables.

② Global variables:

The variables which are declared in the class block is known as a global variables.

There are of two types:

① Static variable

② Non-Static variable.

① Local variable:

② Local variables:

If variable is declared in method block or any other block ~~then~~ other than class block is called as Local variables.

# characteristics of Local variables.

① A variable declared inside block remains local to that block & cannot be accessed outside the block.

eg:

class Local

{

public static void main (String args[])

{

{

int a;

System.out.print(a); //10

}

System.out.print(a); // compile Time Error

}

}

② We cannot have more than one local variables of same name within the same block else we get compile time error.

Eg:

```

class Local1
{
    psvm(String args[])
    {
        {
            int a = 10;
            String a = "Hello"; // compile Time Error
        }
    }
}
    
```

③ We can have more than one local variables of same name in two different blocks.

Eg:

```

class Local1
{
    psvm(String args[])
    {
        {
            int a = 10;
            System.out.print(a); // 10
        }
        {
            String a = "Hello!";
            System.out.print(a); // Hello
        }
    }
}
    
```

④ We cannot use local variable without initialization

Eg: because local variables are not assigned with default values

↳ (Global variables Assigned with default values)



Eg:

```
class Local1
```

```
{
```

```
    PSVM (String args[])
```

```
{
```

```
        boolean b;
```

```
        System.out.print(b); // compile time Error
```

```
}
```

```
}
```

## # Operators:

Operators are the symbols which are used to perform certain operations on the given values known as operands.

Operators are classified into two types:

① Unary

① Based on type of operation it can perform

② Based on Number of operands needed to perform certain operation.

### • Based on No. of operands

① Unary operators (1 operand)

② Binary operators (2 operand)

③ Ternary operators (3 operand)

### • Based on Type of operations:

① Arithmetic operator

② Assignment operator

③ Relational operators

④ Conditional operators

⑤ increment & decrement operator

⑥ Logical operators

⑦ compound Assignment operator

- ① If Bitwise Operators
- ② \* Miscellaneous operator.