

Variable

In C language, Variables are of 2 types:

1. local variable (inside main ())
2. global variable (outside main ())

Ex:

```
#include<stdio.h>
#include<conio.h>
#define pi=3.14;// Global variable
main()
{
int i=10;// Local variable
clrscr();
-----
-----
-----
-----
-----
return 0;
}
```

In JAVA language, Variables are of 2 types:

1. Instance variable

- a.) The variable which is declared inside a "Class".
- b.) The contents here are known as " Non-static contents ".
- c.) JVM gives the first priority to Non static contents only.

2. Local variable

- a.) The variable which is declared inside a "Method or Function".
- b.) The contents here are known as " Static contents ".
- c.) JVM gives the second priority to static contents.

new() operator

- 1. It is a special kind of operator in JAVA.
- 2. It is used in Object creation.
- 3. It Reserves Some memory inside RAM for Object purpose.
- 4. It is used to transfer Non-Static contents from Hard disk to RAM.

***** Default Memory of Object is " 64 KB ".**

Reference Variable

It is used to hold Objects Address.

Binding

Linking Method call to Function Definition.

Two types of Binding:

- 1.) Static Binding (Compile time) ---Early Binding
- 2.) Dynamic Binding (Runtime)-----Late Binding

Constructor

It is used in Creation of Object.

Two types of Constructors:

- 1.) Default (No-args)
- 2.) Parameterized

Method Signature

Method Signature= function name + parameters list

syntax: f1()

Function Declaration----- void f1();

Function Definition

```
void f1()
```

```
{
```

```
-----
```

```
-----
```

```
-----
```

```
-----
```

```
-----
```

```
}
```

Function Example:

```
class A
```

```
{
```

```
void f1()
```

```
{
```

```
---
```

```
----
```

```
-----
```

```
----
```

```
}
```

```
}
```

Constructor Example:

```
class A
{
A ()
{
---
----
----
---
}
}
```

Differences between Function and Constructor are:

- 1.) void is presented before function and there is no necessity of mentioning void before constructor.
- 2.) class name and function name must not be same. class name and constructor name must be same.

Call by Value:

Conversion of Actual (or) Original Parameters to Formal Parameters.

Actual Parameter:

The Parameter which is declared inside "Method Call ".

Syntax----- obj.f1(10,20);

Here, 10&20 are Actual Parameters.

Formal Parameter:

The Parameter which is declared inside " Function Definition ".

Syntax----- void f1(int a,int b)

Here, int a & int b are Formal Parameters.