

Lesson 31 CPP Constructor

It is sometimes convenient if an object can initialize itself when it is first created, without the need to make a separate call to member functions.

Automatic initialization is carried out using special member functions called **constructors**.

A Constructor is a special member function that is called automatically when an object is created.

The purpose of a constructor is to mainly initialize the member variables of a class.

Characteristics of Constructor:

- The name of the constructor is the same as the name of the class.
- A Constructor, even though it is a function, has no return type, i.e. it is neither a value-returning function nor a void function.
- The constructor should be declared in the public section.
- Constructors are executed automatically i.e. they are never invoked. They are executed when a class object is created.

Example:

Program to demonstrate how a constructor is used to initialize data members of an object.

#include<iostream.h>
#include<conjo.h>

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```
class Number
{
private:
int a;
public:
     Number ()
     {
            cout <<"I am in the Constructor";
            a = 100;
     void display()
     {
            cout<<"Value of a is ="<<a;
     }
     };
     void main()
     {
            Number N;
            N.display;
OUTPUT:
I am in the Constructor
Value of a is = 100
```