**C# Constructor**

In C#, constructor is a special method which is invoked automatically at the time of object creation. It is used to initialize the data members of new object generally. The constructor in C# has the same name as class or struct.

There can be two types of constructors in C#.

* Default constructor
* Parameterized constructor

**C# Default Constructor**

A constructor which has no argument is known as default constructor. It is invoked at the time of creating object.

**C# Default Constructor Example: Having Main() within class**

1. using System;
2. public class Employee
3. {
4. public Employee()
5. {
6. Console.WriteLine("Default Constructor Invoked");
7. }
8. public static void Main(string[] args)
9. {
10. Employee e1 = new Employee();
11. Employee e2 = new Employee();
12. }
13. }

Output:

Default Constructor Invoked

Default Constructor Invoked

**C# Default Constructor Example: Having Main() in another class**

Let's see another example of default constructor where we are having Main() method in another class.

1. using System;
2. public class Employee
3. {
4. public Employee()
5. {
6. Console.WriteLine("Default Constructor Invoked");
7. }
8. }
9. class TestEmployee{
10. public static void Main(string[] args)
11. {
12. Employee e1 = new Employee();
13. Employee e2 = new Employee();
14. }
15. }

Output:

Default Constructor Invoked

Default Constructor Invoked

**C# Parameterized Constructor**

A constructor which has parameters is called parameterized constructor. It is used to provide different values to distinct objects.

1. using System;
2. public class Employee
3. {
4. public int id;
5. public String name;
6. public float salary;
7. public Employee(int i, String n,float s)
8. {
9. id = i;
10. name = n;
11. salary = s;
12. }
13. public void display()
14. {
15. Console.WriteLine(id + " " + name+" "+salary);
16. }
17. }
18. class TestEmployee{
19. public static void Main(string[] args)
20. {
21. Employee e1 = new Employee(101, "Sonoo", 890000f);
22. Employee e2 = new Employee(102, "Mahesh", 490000f);
23. e1.display();
24. e2.display();
26. }
27. }

Output:

101 Sonoo 890000

102 Mahesh 490000