**Department of Computer Engineering** 

01CE0523 - .NET Technologies

# .NET TECHNOLOGIES (01CE0523) Lab Manual

Name: Asif Alam

**Enrolment No: 92201703058** 

Class: 5EC3

Batch: A

# Warwadi U n i v e r s i t y Marwadi Chandarana Group

# **FACULTY OF ENGINEERING AND TECHNOLOGY**

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Lab	Program	Date	Marks	Signature
1.	Program on Class, Object and Constructor			
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7.	Program on Session and Cookie			
8.	Creating web application using MVC			
9.	Create web application that performs CRUD operation using ADO.Net			
10.	Create Web application which use Data Controls like Repeater, DataList, DataGrid			
11.	Program for Creating and using APIs			



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# **Experiment 1**

# AIM: Program on Class, Object and Constructor

```
Code: using System;
     public class Student
         String name;
         double cgpi;
         int sem;
         public Student() {
             Console.WriteLine("1. Calling parameterless constructor...");
         }
         public Student(String name)
             this.name = name;
             Console.WriteLine("2. Name: "+ this.name);
         }
         public Student(String name, double cgpi)
         {
             this.name = name;
             this.cgpi = cgpi;
             Console.WriteLine("3. Name: "+ this.name + " CGPI: "+ this.cgpi);
         }
         public Student(String name, double cgpi, int sem)
             this.name = name;
             this.cgpi = cgpi;
             this.sem = sem;
             Console.WriteLine("4. Name: "+ this.name + " CGPI: "+ this.cgpi +"
     Sem: "+ this.sem);
         }
```



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```
public static void Main(String[] args)
    {
        Console.WriteLine("Menu\n");
        Console.WriteLine("1. Parameterless Constructor...");
        Console.WriteLine("2. Constructor with one parameter...");
        Console.WriteLine("3. Constructor with two parameter...");
        Console.WriteLine("4. Constructor with three parameter...");
        Console.WriteLine("Enter: ");
        int n = Convert.ToInt32(Console.ReadLine());
        switch (n)
        {
            case 1: Student s1 = new Student();
                break;
            case 2: Student s2 = new Student("Asif");
                break;
            case 3: Student s3 = new Student("Asif", 9.32);
                break;
            case 4: Student s4 = new Student("Asif", 9.32, 5);
                break;
            default: Console.WriteLine("Invalid Input");
                break;
        }
    }
}
```



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# **Output:**

```
Menu

1. Parameterless Constructor...
2. Constructor with one parameter...
3. Constructor with two parameter...
4. Constructor with three parameter...
Enter:
3
3. Name: Asif CGPI: 9.32
```



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# **Experiment 2**

**AIM**: Program on Inheritance and Interface

#### Code:

```
interface C1
{
    void methodC1();
}
interface C2
{
    void methodC2();
}
interface C3
{
    void methodC3();
}
public class IC : C1, C2, C3
{
    public void methodC1()
    {
        Console.WriteLine("Method C1");
    }
    public void methodC2()
    {
        Console.WriteLine("Method C2");
    }
    public void methodC3()
        Console.WriteLine("Method C3");
    }
}
```



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```
public class R1
{
    public void methodR1()
        Console.WriteLine("MethodR1");
    }
}
class R11 : R1
{
    public void methodR11()
        Console.WriteLine("MethodR11");
    }
}
class R12 : R1
{
    public void methodR12()
    {
        Console.WriteLine("MethodR12");
    }
}
class R111 : R11
{
    public void methodR111()
        Console.WriteLine("MethodR111");
    }
}
class R112 : R12
{
    public void methodR112()
```



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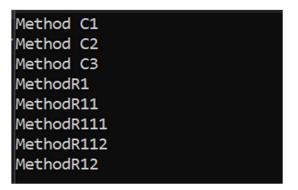
```
{
        Console.WriteLine("MethodR112");
    }
}
public class Prac2
{
    public static void Main(String[] args)
    {
        IC obj1 = new IC();
        obj1.methodC1();
        obj1.methodC2();
        obj1.methodC3();
        R111 r1 = new R111();
        r1.methodR1();
        r1.methodR11();
        r1.methodR111();
        R112 r2 = new R112();
        r2.methodR112();
        r2.methodR12();
    }
}
```



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# **Output:**





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# NOTE:

## AIM:

- Font Type: Calibri (Body)

- Font Size: 14

- Bold

- Line Spacing: 1.5

# Code

- Font Type: Cascadia Mono

- Font Size: 10

- Normal

- Line Spacing: 1.0