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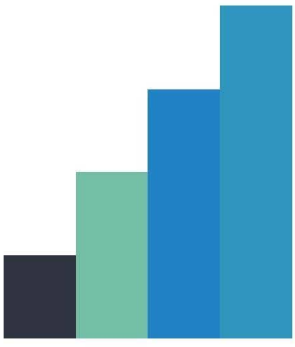
SUBJECT: ***.NET Programming***

Sr No.	Program
1	Visual .NET and Hands on to Create, Save and Open the Project.
2	Write a Console Application to Print “HELLO WORLD”.
3	Write, Test and Debug Program to Print Half Pyramid using Loop.
4	Write, Test and Debug Program to use following Operators. 1. Arithmetic Operator. 2. BITSHIFT Operator.
5	Write, Test and Debug Program for following Array. 1. One-Dimensional Array 2. Two-Dimensional Array 3. Dynamic Array

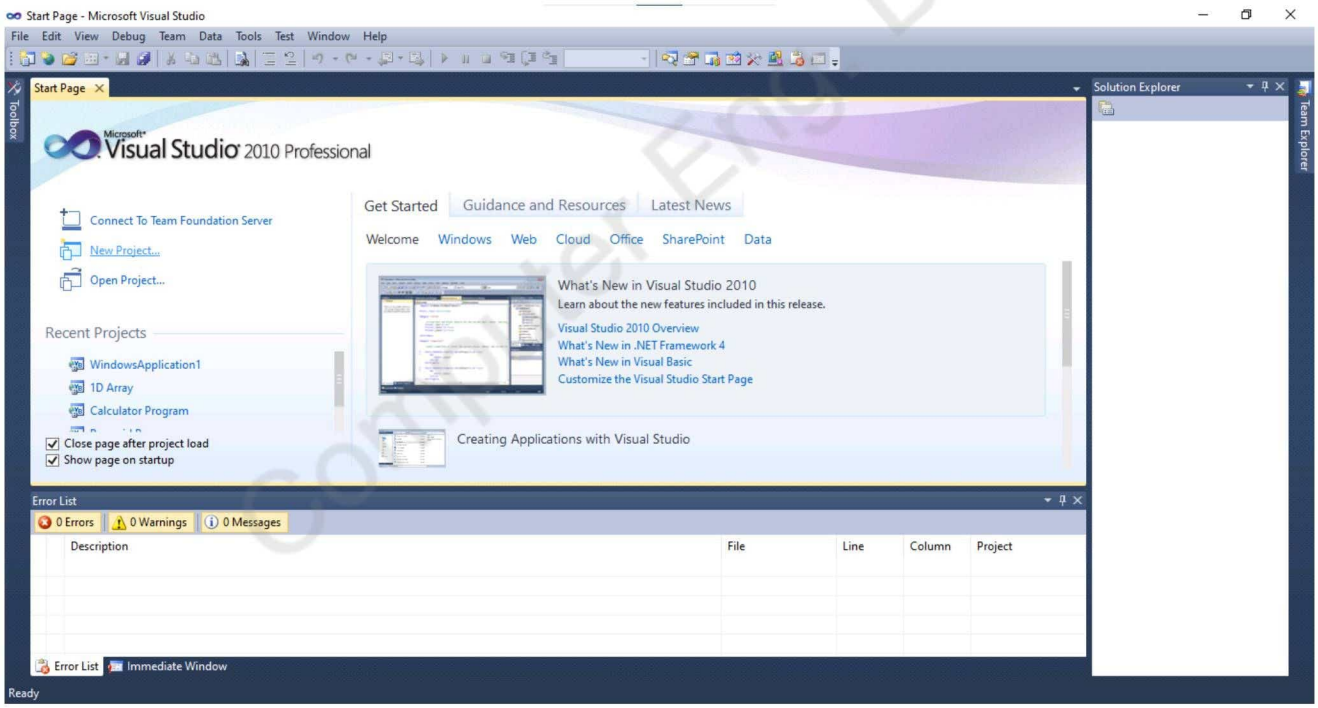


PRACTICAL 1

INTRODUCTION TO .NET

1. Visual .NET and Hands on Create, Save and Open the Project.

→ Open Visual Studio 2010
→ Choose “New Project”
→ Select a project to perform



2. Write Console Application to print “HELLO WORLD”.

```
(General)
Module Module1

    Sub Main()
        Console.WriteLine("HELLO WORLD")
        Console.ReadLine()
    End Sub

End Module
```

```
file:///C:/Users/TOSHIBA/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE
HELLO WORLD
```

3. Write, Test and Debug program to print “Half Pyramid” using Loop.

```
(General)
Module Module1

    Sub Main()
        Dim a As Char
        Dim no As Integer
        Console.WriteLine("Enter variable for pyramid:")
        a = Console.ReadLine()
        Console.WriteLine("Enter number of symbols to print:")
        no = Console.ReadLine()
        For x = 1 To no
            Console.WriteLine()
            For y = 1 To x
                Console.Write(a)
            Next
        Next
        Console.ReadLine()
    End Sub
End Module
```



```
file:///C:/Users/TOSHIBA/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE
Enter variable for pyramid:
M
Enter number of symbols to print:
6

M
MM
MMM
MMMM
MMMMM
MMMMMM
```

3. Write, Test and Debug program to use following operators:

→ Arithmetic Operators

→ Bit-Shift Operators

Arithmetic operator:

Module1

```
Module Module1
    Sub Main()
        Dim a As Integer = 20
        Dim b As Integer = 30
        Dim p As Integer = 2
        Dim c As Integer
        Dim d As Single
        c = a + b
        Console.WriteLine("Addition: Value of c is {0} ", c)
        c = a - b
        Console.WriteLine("Subtaction: Value of c is {0} ", c)
        c = a * b
        Console.WriteLine("Multiplication: Value of c is {0} ", c)
        c = a / b
        Console.WriteLine("Division: Value of c is {0} ", c)
        c = a ^ p
        Console.WriteLine("Power: Value of c is {0} ", c)
        Console.ReadLine()


    End Sub
End Module
```

```
file:///C:/Users/TOSHIBA/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE
Addition: Value of c is 50
Subtaction: Value of c is -10
Multiplication: Value of c is 600
Division: Value of c is 1
Power: Value of c is 400
```

Bit-Shift operator:

Module1

```
Module Module1
    Sub Main()
        Dim a, b, c As Integer
        a = 20
        b = 45
        c = a And b
        Console.WriteLine("Bitshift operator is= " & c)
        c = a Or b
        Console.WriteLine("Bitshift operator is= " & c)
        c = Not a
        Console.WriteLine("Bitshift operator is= " & c)
        c = a Xor b
        Console.WriteLine("Bitshift operator is= " & c)
        c = a >> b
        Console.WriteLine("Bitshift operator is= " & c)
        c = a << b
        Console.WriteLine("Bitshift operator is= " & c)
        Console.ReadLine()

    End Sub
End Module
```

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```
Bitshift operator is= 4
Bitshift operator is= 61
Bitshift operator is= -21
Bitshift operator is= 57
Bitshift operator is= 0
Bitshift operator is= 163840
```

5. Write, Test and Debug program for array:

→ One-Dimensional Array

→ Two-Dimensional Array

→ Dynamic Array

One-Dimensional Array:

Module1

```
Module Module1

    Sub Main()
        Dim n(10) As Integer
        Dim i, j As Integer

        For i = 0 To 10
            n(i) = i + 20
        Next i

        For j = 0 To 10
            Console.WriteLine("elements{0}={1}", j, n(j))

        Next j

        Console.ReadKey()

    End Sub

End Module
```

Two-Dimensional Array:

Module1

```
Module Module1

    Sub Main()
        Dim arr(,) As Integer
        arr = New Integer(1, 2) {{1, 2, 3}, {4, 5, 6}}
        For i = 0 To arr.GetUpperBound(0) 'maxrow
            For j = 0 To arr.GetUpperBound(1) 'max column index
                Console.Write(arr(i, j) & vbTab)
            Next
            Console.WriteLine() ' print new line
        Next
        Console.ReadLine()
    End Sub

End Module
```

file:///C:/Users/TOSHIBA/Documents/SEM4 NOTES/.NET Programs/1D Array/1D Array/bin/Debug/1D Array.EXE

```
1       2       3
4       5       6
```

Dynamic Array:

Module1

```
Module Module1

    Sub Main()
        Dim marks() As Integer
        ReDim marks(2)
        marks(0) = 89
        marks(1) = 78
        marks(2) = 93
        ReDim Preserve marks(10)
        marks(3) = 56
        marks(4) = 67
        marks(5) = 88
        marks(6) = 33
        marks(7) = 40
        marks(8) = 78
        For i = 0 To 10
            Console.WriteLine(i & vbTab & marks(i))
        Next i
        Console.ReadKey()
    End Sub

End Module
```

Select file:///C:/Users/TOSHIBA/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE

```
0       89
1       78
2       93
3       56
4       67
5       88
6       33
7       40
8       78
9       0
10      0
```