NAME:- BHATT MUDIT M.
SUBJECT:-.NET PROGRAMMING
ENROLLMENT NO. :- 209830307018

PRACTICAL 1

Introduction to VB.NET

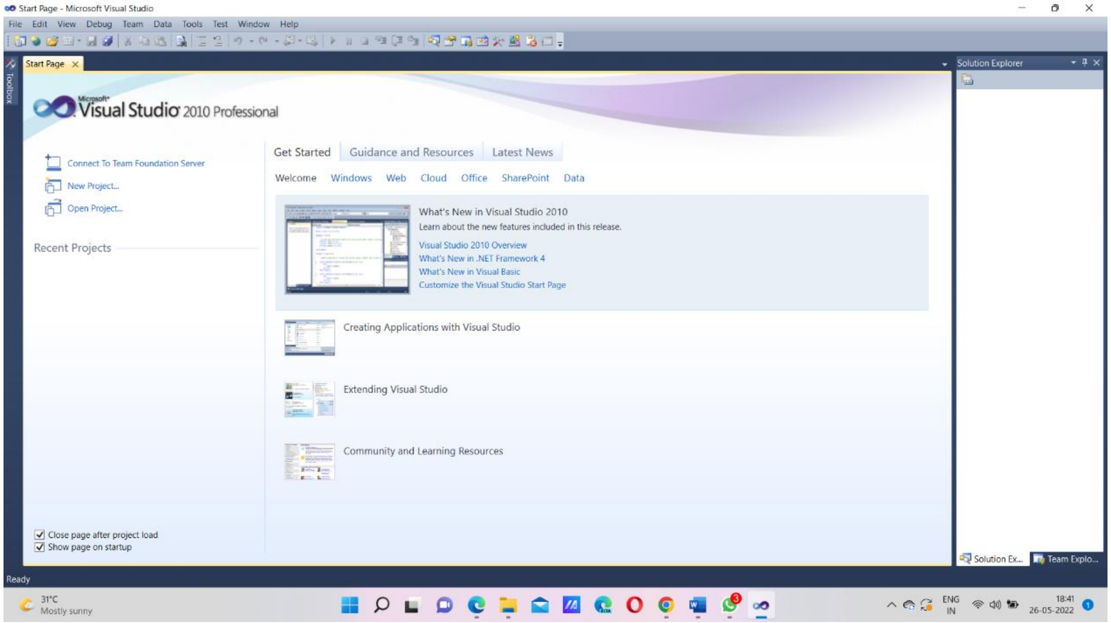
1} Visual .NET and Hands On to Create, Save and Open the Project.

»solution

-»Open visual studio 2010.

-»Choose "New Project".

-»Select The Project To Perform.


Start Page - Microsoft Visual Studio
File Edit View Debug Team Data Tools Test Window Help
Start Page
Toolbox
Solution Explorer
Microsoft Visual Studio 2010 Professional
Connect To Team Foundation Server
New Project...
Open Project...
Recent Projects
Get Started
Guidance and Resources
Latest News
Welcome Windows Web Cloud Office SharePoint Data
What's New in Visual Studio 2010
Visual Studio 2010 Overview
What's New in .NET Framework 4
What's New in Visual Basic
Customize the Visual Studio Start Page
Creating Applications with Visual Studio
Extending Visual Studio
Community and Learning Resources
☑ Close page after project load
☑ Show page on startup
Solution Ex...
Team Explo...
Ready
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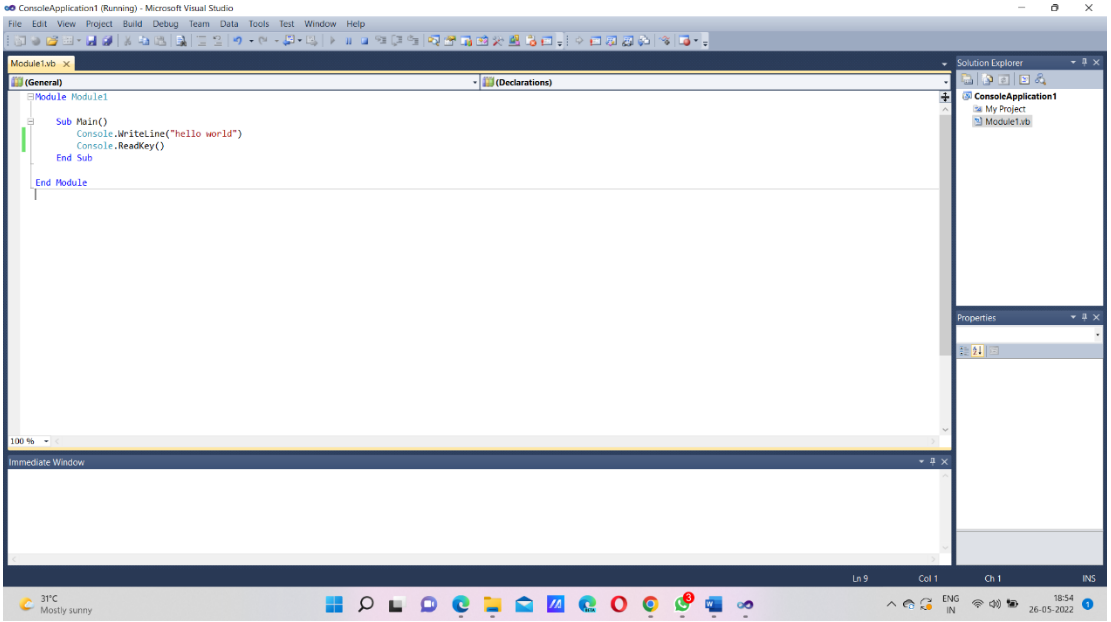
Learn about the new features included in this release.

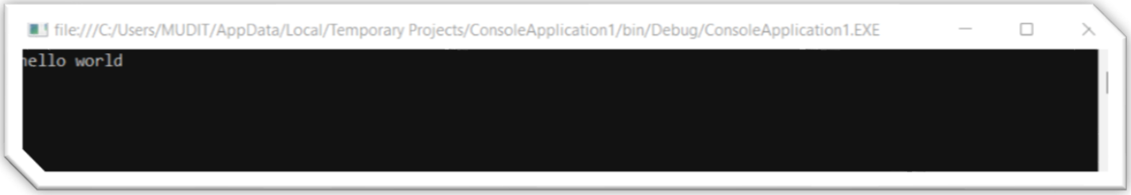
2} Write Console Application to print Hello World.

»solution

SUBJECT:-.NET PROGRAMMING



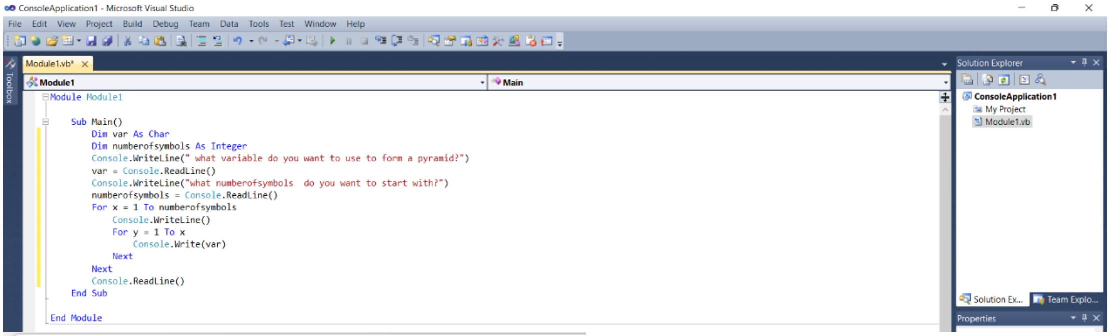
```
Module Module1

    Sub Main()
        Console.WriteLine("hello world")
        Console.ReadKey()
    End Sub

End Module
```


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

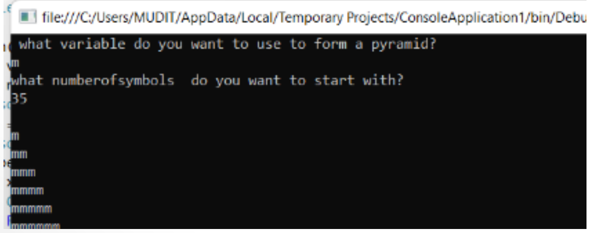
```
hello world
```

3} Write, Test and Debug Program to Print Half Pyramid using Loop.

»solution



```
Module Module1

    Sub Main()
        Dim var As Char
        Dim numberofsymbols As Integer
        Console.WriteLine(" what variable do you want to use to form a pyramid?")
        var = Console.ReadLine()
        Console.WriteLine("what numberofsymbols  do you want to start with?")
        numberofsymbols = Console.ReadLine()
        For x = 1 To numberofsymbols
            Console.WriteLine()
            For y = 1 To x
                Console.Write(var)
            Next
        Next
        Console.ReadLine()
    End Sub

End Module
```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```
 what variable do you want to use to form a pyramid?
m
what numberofsymbols  do you want to start with?
35

m
mm
mmm
mmmm
mmmmm
mmmmmm
```

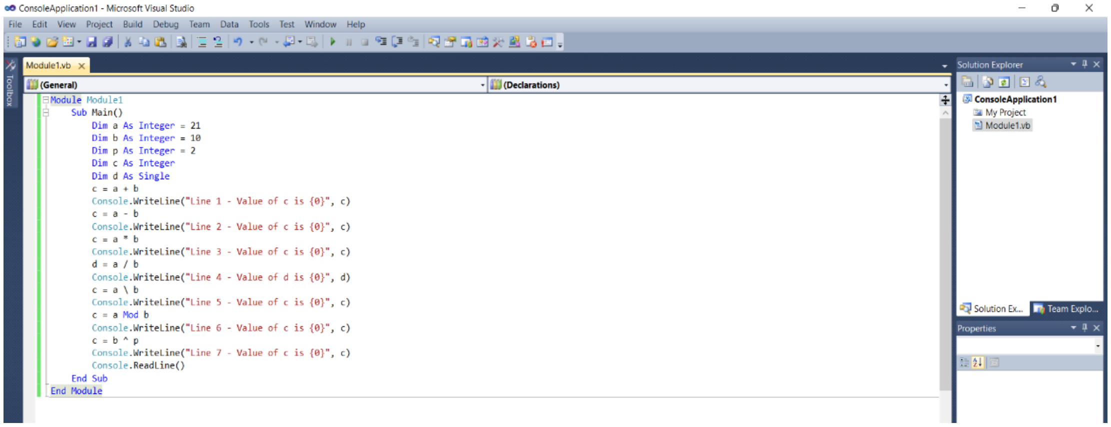
4} Write, Test and Debug Program to use following Operators.

-»1 Arithmetic Operator.

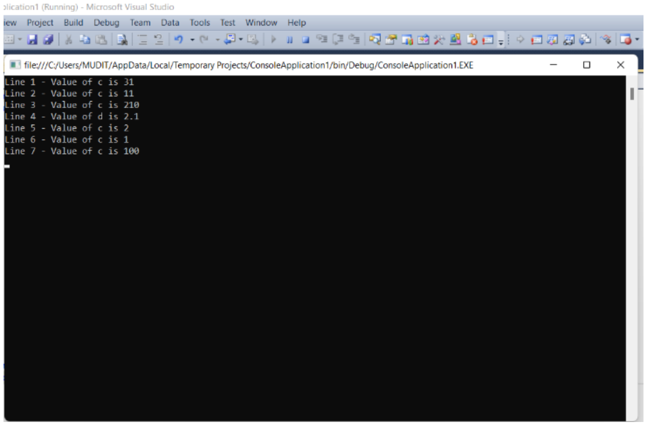
-»2 BITSHIFT Operator.

-»1 Arithmetic Operator.

»solution



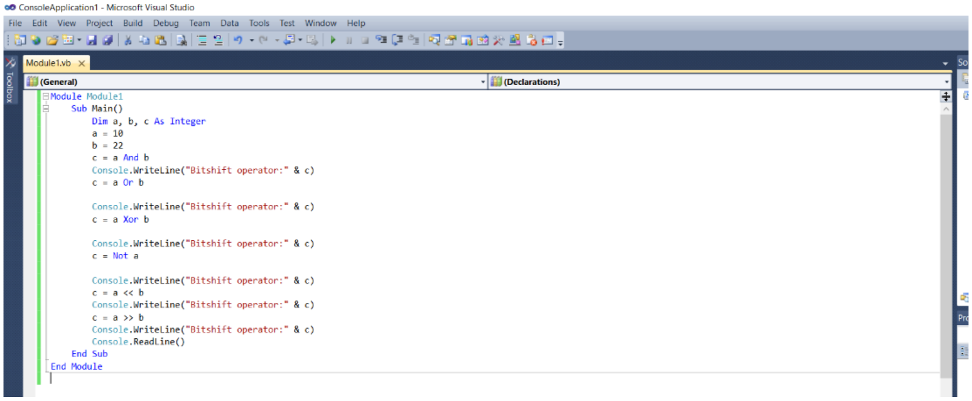
```
Module Module1
    Sub Main()
        Dim a As Integer = 21
        Dim b As Integer = 10
        Dim p As Integer = 2
        Dim c As Integer
        Dim d As Single
        c = a + b
        Console.WriteLine("Line 1 - Value of c is {0}", c)
        c = a - b
        Console.WriteLine("Line 2 - Value of c is {0}", c)
        c = a * b
        Console.WriteLine("Line 3 - Value of c is {0}", c)
        d = a / b
        Console.WriteLine("Line 4 - Value of d is {0}", d)
        c = a \ b
        Console.WriteLine("Line 5 - Value of c is {0}", c)
        c = a Mod b
        Console.WriteLine("Line 6 - Value of c is {0}", c)
        c = b ^ p
        Console.WriteLine("Line 7 - Value of c is {0}", c)
        Console.ReadLine()
    End Sub
End Module
```


plication1 (Running) - Microsoft Visual Studio
iew Project Build Debug Team Data Tools Test Window Help
file:///C:/Users/MUDIT/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE

```
Line 1 - Value of c is 31
Line 2 - Value of c is 11
Line 3 - Value of c is 210
Line 4 - Value of d is 2.1
Line 5 - Value of c is 2
Line 6 - Value of c is 1
Line 7 - Value of c is 100
```

-»2 BITSHIFT Operator

»solution



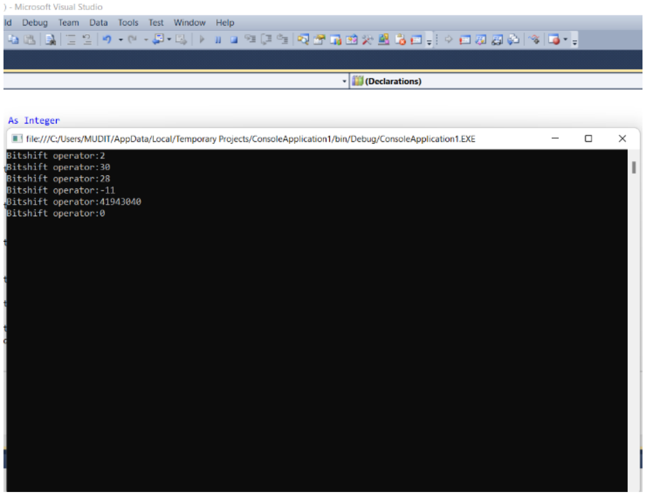
ConsoleApplication1 - Microsoft Visual Studio
File Edit View Project Build Debug Team Data Tools Test Window Help
Module1.vb
(General)
(Declarations)
Toolbox

```
Module Module1
    Sub Main()
        Dim a, b, c As Integer
        a = 10
        b = 22
        c = a And b
        Console.WriteLine("Bitshift operator:" & c)
        c = a Or b

        Console.WriteLine("Bitshift operator:" & c)
        c = a Xor b

        Console.WriteLine("Bitshift operator:" & c)
        c = Not a

        Console.WriteLine("Bitshift operator:" & c)
        c = a << b
        Console.WriteLine("Bitshift operator:" & c)
        c = a >> b
        Console.WriteLine("Bitshift operator:" & c)
        Console.ReadLine()
    End Sub
End Module
```



) - Microsoft Visual Studio
ld Debug Team Data Tools Test Window Help
(Declarations)
As Integer
file:///C:/Users/MUDIT/AppData/Local/Temporary Projects/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE

```
Bitshift operator:2
Bitshift operator:30
Bitshift operator:28
Bitshift operator:-11
Bitshift operator:41943040
Bitshift operator:0
```

5}Write, Test and Debug Program for following Array.

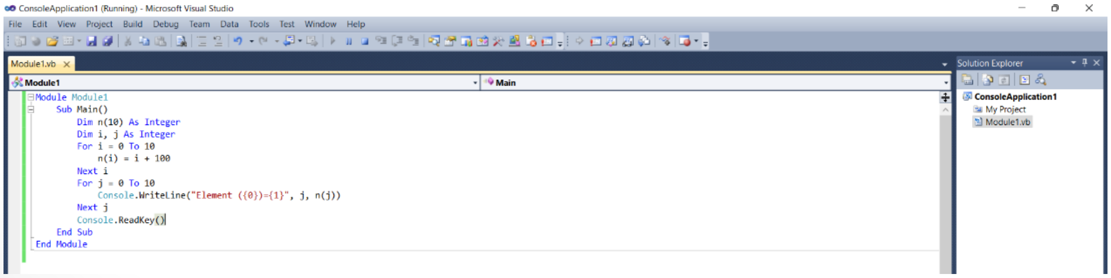
1->One Dimensional Array

2-> Two Dimensional Array

3-> Dynamic Array

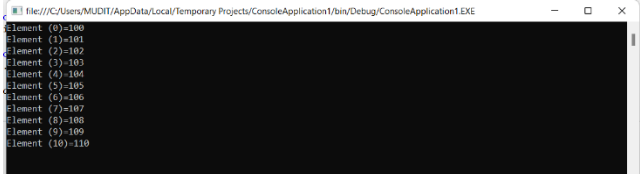
1->One Dimensional Array

»solution



ConsoleApplication1 (Running) - Microsoft Visual Studio
File Edit View Project Build Debug Team Data Tools Test Window Help
Module1.vb
Module1
Main
Solution Explorer
ConsoleApplication1
My Project
Module1.vb

```
Module Module1
    Sub Main()
        Dim n(10) As Integer
        Dim i, j As Integer
        For i = 0 To 10
            n(i) = i + 100
        Next i
        For j = 0 To 10
            Console.WriteLine("Element ({0})={1}", j, n(j))
        Next j
        Console.ReadKey()
    End Sub
End Module
```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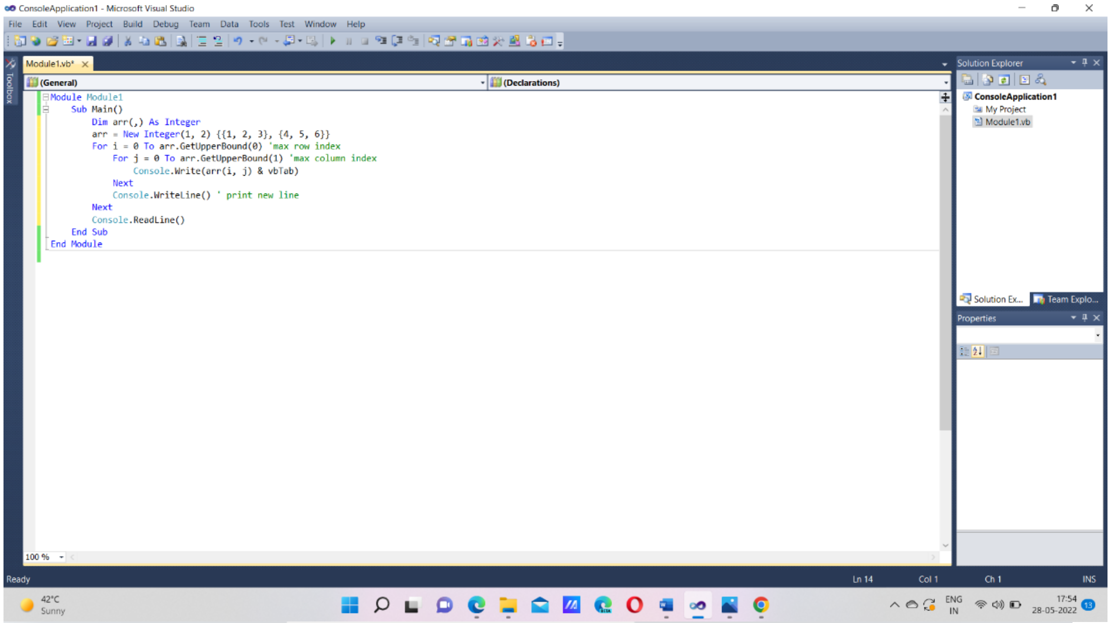
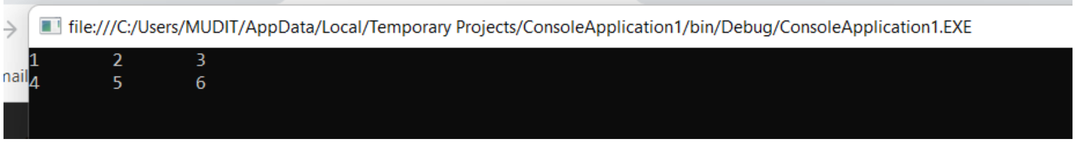
```
Element (0)=100
Element (1)=101
Element (2)=102
Element (3)=103
Element (4)=104
Element (5)=105
Element (6)=106
Element (7)=107
Element (8)=108
Element (9)=109
Element (10)=110
```

2-> Two Dimensional Array

»solution



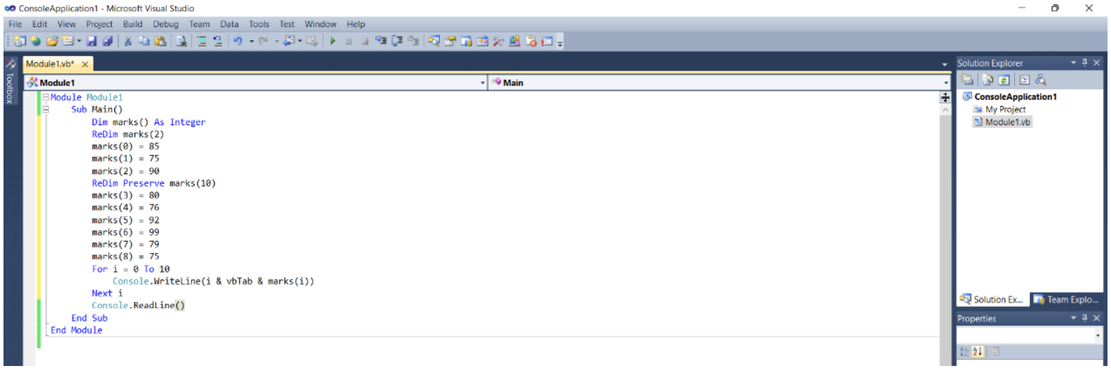
```
Module Module1
    Sub Main()
        Dim arr(,) As Integer
        arr = New Integer(1, 2) {{1, 2, 3}, {4, 5, 6}}
        For i = 0 To arr.GetUpperBound(0) 'max row index
            For j = 0 To arr.GetUpperBound(1) 'max column index
                Console.Write(arr(i, j) & vbTab)
            Next
            Console.WriteLine() ' print new line
        Next
        Console.ReadLine()
    End Sub
End Module
```


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

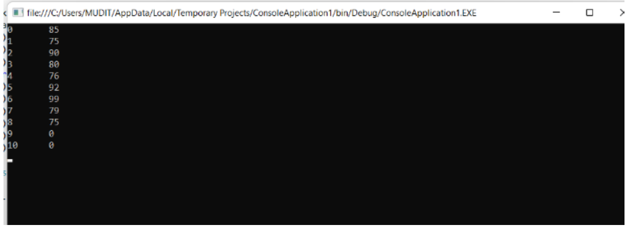
```
1       2       3
4       5       6
```

3-> Dynamic Array

»solution



```
Module Module1
    Sub Main()
        Dim marks() As Integer
        ReDim marks(2)
        marks(0) = 85
        marks(1) = 75
        marks(2) = 90
        ReDim Preserve marks(10)
        marks(3) = 80
        marks(4) = 76
        marks(5) = 92
        marks(6) = 99
        marks(7) = 79
        marks(8) = 75
        For i = 0 To 10
            Console.WriteLine(i & vbTab & marks(i))
        Next i
        Console.ReadLine()
    End Sub
End Module
```


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

```
0       85
1       75
2       90
3       80
4       76
5       92
6       99
7       79
8       75
9       0
10      0
```