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## Experiment -01

Name of the experiment:

To find the area of circle by using window controls.

Design Page:

Radius of a circle

Area of a circle

Calculate the Area

Program:

```
Dim pi, area As Single
```

```
pi = TextBox1.Text
```

```
area = 3.14 * pi * pi
```

```
TextBox2.Text = area
```

Output:

Radius of circle

2



Area of a circle

12.56

Calculate the Area

10/11/2021

## Name of the experiment:

To calculate sum of the digits of number entered by user.

## Design page:

Enter the number

Result

Sum of Digits

Reset

## Program:

```
Private Sub Button2_Click(sender As Object, e As EventArgs)
```

```
    TextBox1.Text = " "
```

Handles Button2.Click

```
    TextBox2.Text = " "
```

```
End Sub
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs)
```

Handles Button1.Click

```
    Dim num, sum, r As Integer
```

```
    num = TextBox1.Text
```

```
    sum = 0
```

```
    While num > 0
```

```
        r = num Mod 10
```

```
        sum = sum + r
```

```
        num = num \ 10
```

```
    End While
```

```
    TextBox2.Text = sum
```

```
End Sub
```

End  
10/11/2021

Output:

Enter the number

Result

Sum of Digits

Reset

✓  
edt  
10/11/2021

Name of the experiment:

To find reverse of a number.

Design Page:

Enter a Number

Reverse of a number

Program:

```
Dim num, sum, n As Integer
```

```
num = TextBox1.Text
```

```
sum = 0
```

```
While num > 0
```

```
    n = num Mod 10
```

```
    sum = sum * 10 + n
```

```
    num = num \ 10
```

```
End While
```

```
TextBox2.Text = sum
```

Output:

Enter a Number

Reverse of a number

✓  
LPT  
10/11/2021

## Experiment - 04

### Name of the Program:

To display a message "Hello India" on console.

### Program:

Module Program

Sub Main (args As String())

Console.WriteLine ("Hello India")

End Sub

End Module

### Output:

Hello India



✓  
10/11/2021

B Name of the Program: To perform arithmetic operation on console.

Program:  
Sub Main(args As String())

Dim firstnum, secondnum, answer As Double

Dim ops As String

Console.WriteLine("Enter First Number")

firstnum = Console.ReadLine

Console.WriteLine("Select operators: (+, -, \*, /, ^, %)")

ops = Console.ReadLine

Console.WriteLine("Enter Second Number")

secondnum = Console.ReadLine

If (ops = "+") Then

answer = firstnum + secondnum

ElseIf (ops = "-") Then

answer = firstnum - secondnum

ElseIf (ops = "\*") Then

answer = firstnum \* secondnum

ElseIf (ops = "^") Then

answer = firstnum ^ secondnum

Else If (ops = "%") Then

answer = firstnum Mod secondnum

Else If

Console.WriteLine(answer)

Console.WriteLine("Press any key to exit")

Console.ReadLine()

End Sub

Output

Enter First Number

45

Select operators: (+, -, \*, /, ^, %)

\*

Enter Second Number

2

90

✓ End  
10/11/2021

Name of the program:

To find whether a year is leap or not on console

Program:

Sub Main()

Dim year As Integer

Console.WriteLine("Enter year...")

year = Console.ReadLine

If ((year Mod 100 = 0) and (year Mod 400 = 0)) or (year Mod 100 > 0)

And (year Mod 4 = 0)) Then

Console.WriteLine("This year is leap year" & Str(year))

Else

Console.WriteLine("This year is not leap year" & Str(year))

End If

Console.ReadKey()



End Sub

Output:

Enter year...

2015

This year is not leap year 2015

End  
10/11/2021

## Experiment - 07

### Name of the Program:

To find factorial using while on console.

### Program:

```
Dim num, fact, i As Integer
```

```
fact = 1
```

```
Console.WriteLine ("Enter number")
```

```
num = Console.ReadLine
```

```
While num > 0
```

```
    fact = fact * num
```

```
    num = num - 1
```

```
End While
```

```
Console.WriteLine ("The factorial = " & fact)
```

```
Console.ReadKey()
```

```
End Sub
```



### Output

Enter number

6

The factorial = 720

✓ End  
10/11/2021

## Program - 08

### Name of the Program:

To find factorial using forr on console.

### Program:

Dim num, fact, i As Integer

fact = 1

Console.WriteLine ("Enter number")

num = Console.ReadLine

If num > 1 Then

For i = 1 To num

fact = fact \* i

Next

End If

Console.WriteLine ("The factorial of " & num & " is " & fact)

Console.ReadKey()

### Output:

Enter number

7

The factorial of 7 is 5040

✓  
end  
10/11/2021

## Program - 09

### Name of the Program:

To find factorial using do....while on console.

### Program:

Dim num, fact, i As Integer

fact = 1

Console.WriteLine ("Enter number")

num = Console.ReadLine

Do

fact = fact \* num

num = num - 1

Loop While num > 0

Console.WriteLine ("The factorial is" & fact)

Console.ReadKey()

### Output:

Enter number

5

The factorial is 120

✓ End  
10/11/2021

## Program - 10

### Name of Program:

To enter any number and check whether the number is palindrome or not.

### Program:

```
Private sub Button2-Click(sender As Object, e As EventArgs)  
End Handles Button2.Click  
End Sub
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs)
```

```
    Dim num, digit, temp, rnum As Integer  
    Handles Button1.Click
```

```
    num = TextBox1.Text
```

```
    temp = num
```

```
    Do
```

```
        digit = temp Mod 10
```

```
        temp = temp \ 10
```

```
        rnum = rnum * 10 + digit
```

```
    Loop While (temp > 0)
```

```
    If rnum = num Then
```

```
        MessageBox.Show("The entered number is a palindrome")
```

```
    Else
```

```
        MessageBox.Show("The entered number is not a palindrome")
```

```
    End If
```

### Output

Enter a Number

676

Check for palindrome

Exit

The entered number  
is a palindrome

OK



end  
10/11/2021

## Program - 11

### Name of the Program :

To enter any number and check whether the number is perfect or not on console.

### Program:

```
Private Sub Button1_Click_1(sender As Object, e As EventArgs) Handles  
    Button1.Click
```

```
Dim n, s As Integer
```

```
s=0
```

```
n=TextBox1.Text
```

```
For i = 1 To n-1
```

```
If n Mod i=0 Then
```

```
    s=s+i
```

```
End If
```

```
Next
```

```
If n=s Then
```

```
    MessageBox.Show("Entered number is a perfect number")
```

```
Else
```

```
    MessageBox.Show("Entered number is not a perfect number")
```

```
End If
```

```
End Sub
```

```
Private Sub Button2_Click (sender As Object, e As EventArgs) Handles  
    Button2.Click
```

```
End
```

```
End Sub
```

### Output:

Enter a number

Entered number is a perfect number

End  
10/11/2021

## Program - 6.12

### Name of the Program:

Ans: To enter any number and check whether the number is prime or not.  
on windows program.

### Program:

```
Private Sub Button3_Click(sender As Object, e As EventArgs) Handles  
    Button3.Click
```

```
    End Sub
```

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles  
    Button2.Click
```

```
    TextBox1.Text = "
```

```
    TextBox2.Text = "
```

```
End Sub
```

```
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles  
    Button1.Click
```

```
    Dim n, i As Integer
```

```
    n = TextBox1.Text
```

```
    For i = 2 To n - 1
```

```
        If n Mod i = 0 Then
```

```
            TextBox2.Text = "not Prime"
```

```
            Exit Sub
```

```
        End If
```

```
    Next
```

```
    TextBox2.Text = "Prime"
```

```
End Sub
```

### Output

Enter a number

75

The number is

not prime

Check for prime

Reset

Exit

end  
10/11/2021

### Program -13

Name of the program -

To perform various string operations on console.

Program

```
Dim sArr As String() = {"Welcome", "to", "VB.NET"}  
Console.WriteLine ("Join with Hyphen :{0}", String.Join("-",sArr))  
Dim sArr1 As String() = {"Usha", "Angeline", "Kajal"}  
Console.WriteLine ("Join with Comma :{0}", String.Join(",",sArr1))  
Console.WriteLine ("Press Enter key to Exit")  
Console.ReadLine()  
End sub
```

Output -

Join with Hyphen : Welcome-to-VB.NET

Join with Comma : Usha, Angeline, Kajal

Press Enter key to Exit...

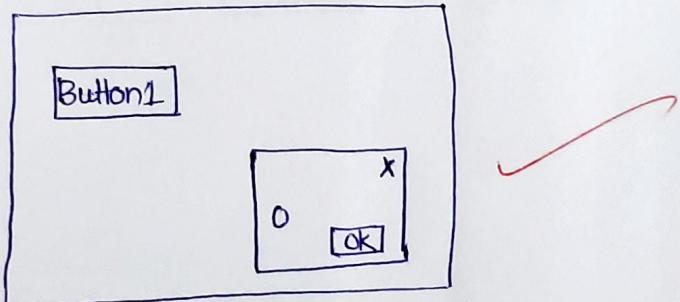
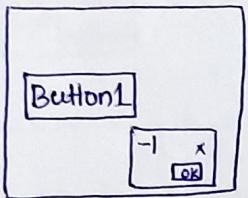
Name of the program -

String comparison operation on windows application.

Program -

```
Dim str1, str2 As String  
str1 = "Abc"  
str2 = "ABC"  
MessageBox.Show(String.Compare(str1, str2, False))  
MessageBox.Show(String.Compare(str1, str2, True))  
End Sub
```

Output



## Name of the experiment -

Split method on windows application.

## Program -

```
Dim input As String = "one)(two)(three)(four)(five"
```

```
Dim result As String() = input.Split(New String() {"("}, StringSplitOptions.None)
```

```
For Each s As String In result
```

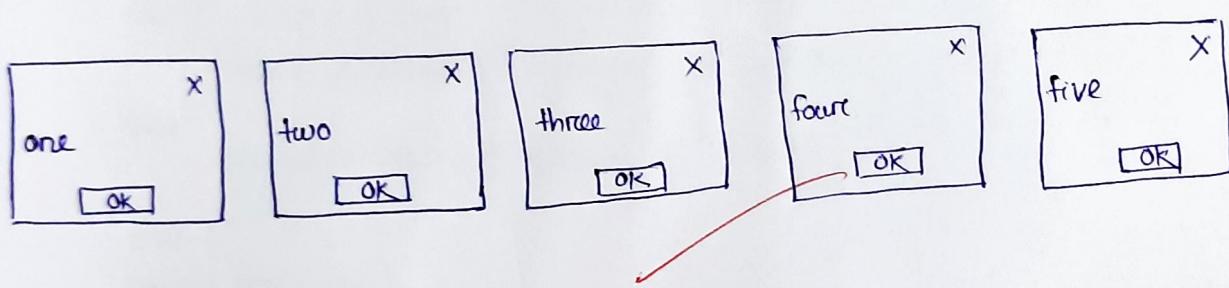
```
    MessageBox.Show(s)
```

```
Next
```

```
End Sub
```

## Output

Split method



## Program-16

Name of the experiment -

Program to find the largest number among three numbers.

Program-

Dim first, second, third

Console.WriteLine ("Enter your first number")

first = Console.ReadLine

Console.WriteLine ("Enter your second number")

Second = console.ReadLine

Console.WriteLine ("Enter your third number")

third = Console.ReadLine

If first > second And first > third Then

    Console.WriteLine ("Largest is " + first)

Else If second > third And second > first Then

        console.WriteLine ("Largest is " + second)

Else

        Console.WriteLine ("Largest is " + third)

End-If

Console.ReadKey()

End Sub

Output -

Enter your first number

6

Enter your second number

8

Enter your third number

23

Largest is 23

## Program-17

Name of the program -

► Program to find maximum and minimum element in an array of size n

Program

Dim n, i, min, max As Integer

Console.WriteLine("How many elements do you want to enter")

n = Console.ReadLine

Dim arr(n) As Integer

For i = 0 To n-1

Console.WriteLine("Enter the element " & (i + 1) & " ")

arr(i) = Int(Console.ReadLine())

Next

Console.WriteLine("Array contains the following elements: ")

For i = 0 To n-1

Console.WriteLine(arr(i))

Next

min = arr(0)

max = arr(0)

For i = 0 To n-1

If min > arr(i) Then

min = arr(i)

End If

Next

For i = 0 To n-1

If max < arr(i) Then

max = arr(i)

End If

Next

Console.WriteLine("The minimum element in an array is " & min)

Console.WriteLine("The maximum element in an array is " & max)

End Sub

### Program-18

#### Output

How many elements do you want to enter

3

Enter the element 1 6

Enter the element 2 3

Enter the element 3 4

⑧ Array contains the following elements:

6

3

4

The minimum element in an array is 3

The maximum element in an array is 6

## Program - 189

Name of the program -

Program to swap two numbers on console application.

Program

Dim x, y As Integer

Console.WriteLine ("Enter the value of x")

x = Console.ReadLine()

Console.WriteLine ("Enter the value of y")

y = Console.ReadLine()

x = x + y

y = x - y

x = x - y

Console.WriteLine ("After swapping values of x & y are {0}, {1}", x, y)

End Sub

Output -

Enter the value of x

67

Enter the value of y

45

After swapping values of x & y are 45 67

## Name of the program -

Program to sort an array on console application.

## Program

```
Dim name(3) As String  
Console.WriteLine ("Enter names")  
For name As Integer = 0 To names.Length-1  
    names(name) = Console.ReadLine()  
Next  
Array.Sort(names)  
Console.WriteLine ("Sorted Names are :")  
For name As Integer = 0 To name.Length - 1  
    Console.WriteLine (names(name))  
Next  
End Sub  
End Module
```

## Output

Angie  
Usha  
Kajal  
Sorted Names are:  
Angie  
Kajal  
Usha



## Program - 201

Name of the program: Program to implement function.

Program:

```
Function Factorial (ByVal num As Integer)
```

```
    Dim result As Integer
```

```
    If num = 1 Then
```

```
        Return 1
```

```
    Else
```

```
        result = Factorial (num - 1) * num
```

```
        Return result
```

```
    End If
```

```
End Function
```

```
Sub Main()
```

```
    Console.WriteLine ("Factorial = {0}", Factorial(5))
```

```
    Console.ReadKey()
```

```
End Sub
```

Output

Factorial = 120

## Program - 22

Name of the program:- Program to implement class.

Program:

```
Dim user As Usercs = New Usercs ("Usha Mansengh", 21)
user.GetUserDetails()
Console.WriteLine ("Press Enter key to Exit...")
Console.ReadLine()
End Sub

Public Class Usercs
    Public Property UName As String
    Public Property UAge As Integer
    Public Sub New(ByVal name As String, ByVal age As Integer)
        UName = name
        UAge = age
    End Sub
    Public Sub GetUserDetails()
        Console.WriteLine ("Name : {0}, Age : {1}", UName, UAge)
    End Sub
End Class
```

Output

Name: Usha Mansengh, Age: 40

### Program - 23

Name of the program: Program to implement try, catch...finally.

#### Program:

```
Sub division (ByVal num1 As Integer, ByVal num2 As Integer)
    Dim result As Integer
    Try
        result = num1 \ num2
    Catch e As DivideByZeroException
        Console.WriteLine ("Exception caught: {0}", e)
    Finally
        Console.WriteLine ("Result: {0}", result)
    End Try
End Sub

Sub Main()
    division (25, 0)
    Console.ReadKey()
End Sub
```

#### Output

Exception caught : System.DivideByZeroException: Attempted to divide by zero.

Program- 28.4

Name of the program:

Program to print

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \*

Program

Sub Main()

Dim row, col, noofrow As Integer

Console.WriteLine ("Enter number of rows")

noofrow = Console.ReadLine()

For row = 1 To noofrow Step 1

For col = 1 To row Step 1

Console.Write ("\*")

Next

Console.WriteLine (vbNewLine)

Next

End Sub

Output

Enter number of rows

6

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \* \*



## Program - 245

Name of the program:

Program to print

```
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5  
1 2 3 4 5 6  
1 2 3 4 5 6 7  
1 2 3 4 5 6 7 8
```

Program:

```
Sub Main()  
    Dim i, j, n As Integer  
    Console.WriteLine("Enter the number of lines: ")  
    n = Console.ReadLine()  
    For i = 1 To n  
        For j = 1 To i  
            Console.Write(j & " ")  
        Next  
        Console.WriteLine()  
    Next  
    Console.ReadLine()  
End Sub
```

Output

Enter the number of lines : 3

```
1  
1 2  
1 2 3
```

## Program-25

### Name of the program:

Program to implement message box (Yes/No) on button click event.

### Program:

Dim answer As Integer

answer = MsgBox("Text", vbQuestion + vbYesNo + vbDefaultButton1, "MessageBox")

If answer = vbYes Then

    MsgBox("You clicked Yes Button")

Else

    MsgBox("You clicked No Button")

End If

End Sub

### Output

