
VB exercises—loops exercises

VB.NET Loops: for loop exercises

Exercise 1: Write VB.NET code to produce the output shown below:

```
*****  
  
*****  
  
*****  
  
****  
  
***  
  
**  
  
*
```

Solution:

```
Module Module1  
  
Sub Main()  
  
Dim i, j As Integer  
For i = 0 To 6  
    For j = 1 To 7 - i  
        Console.Write("*")  
    Next  
    Console.WriteLine()  
Next  
  
Console.ReadLine()  
  
End Sub  
  
End Module
```

Exercise 2: Write VB.NET code to print the following pattern:

```
1*****  
  
12*****  
  
123*****
```

1234***

12345**

123456*

1234567

Solution:

Module Module1

Sub Main()

Dim i, j, k As Integer

For i = 1 To 7

 For j = 1 To i
 Console.WriteLine(j)
 Next

 For k = 7 - i To 1 Step -1
 Console.WriteLine("*")
 Next

Console.WriteLine()
Next

Console.ReadLine()

End Sub

End Module

VB.NET Loops: while loop exercises

Exercise 1:

Write VB.NET program to prompt the user to choose the correct answer from a list of answer choices of a question. The user can choose to continue answering the question or stop answering it. See the example below:

What is the command keyword to exit a loop in VB.NET?

a. int

b. continue

c. break

d. Exit For/Exit While/Exit Do While

Enter your choice: b

Incorrect!

Again? press y to continue:

Solution:

```
Module Module1
```

```
Sub Main()
```

```
Dim ch, con As String  
con = "y"
```

```
Console.WriteLine("What is the correct way to declare a variable to store an integer value in  
VB.NET?")
```

```
Console.WriteLine("a. Int")
```

```
Console.WriteLine("b. Continue")
```

```
Console.WriteLine("c. Break")
```

```
Console.WriteLine("d. Exit For/Exit While/Exit Do While")
```

```
While String.Compare(con, "y") = 0
```

```
    Console.Write("Enter your choice:")
```

```
    ch = Console.ReadLine().ToString()
```

```
    If (String.Compare(ch, "d") = 0) Then
```

```
        Console.WriteLine("Congratulation!")
```

```
    Else : Console.WriteLine("Incorrect!")
```

```
    End If
```

```
Console.Write("Continue? Press y to continue:")
```

```
con = Console.ReadLine().ToString()
```

```
End While
```

```
Console.ReadLine()
```

```
End Sub
```

```
End Module
```

Exercise 2: Write VB.NET program to print the table of characters that are equivalent to the Ascii codes from 1 to 122. The program will print the 10 characters per line.

Solution:

```
Module Module1
    Sub Main()
        Dim i As Integer = 1
        While i <= 122
            Console.Write("{0,4}", Chr(i).ToString())
            If (i Mod 10 = 0) Then
                Console.WriteLine()
            End If
            i = i + 1
        End While

        Console.ReadLine()

    End Sub
End Module
```

VB.NET Loops: do while loop exercises

Exercise 1:

By using do while loop, write VB.NET program to prompt the user to choose the correct answer from a list of answer choices of a question. The user can choose to continue answering the question or stop answering it. See the example below:

What is the correct way to declare a variable to an integer value in VB.NET?

- a. int a
- b. Dim a As Single
- c. Dim a As String
- d. Dim a As Integer

Enter your choice: b

Incorrect!

Again? press y to continue:

Solution:

```
Module Module1
```

```
Sub Main()
```

```
Dim ch, con As String  
con = "y"
```

```
Console.WriteLine("What is the correct way to declare a variable to store an integer value in  
VB.NET?")
```

```
Console.WriteLine("a. int a")
```

```
Console.WriteLine("b. Dim a as Single")
```

```
Console.WriteLine("c. Dim a as String")
```

```
Console.WriteLine("d. Dim a as Integer")
```

```
Do While String.Compare(con, "y") = 0
```

```
Console.Write("Enter your choice:")
```

```
ch = Console.ReadLine().ToString()
```

```
If (String.Compare(ch, "d") = 0) Then
```

```
Console.WriteLine("Congratulation!")
```

```
Else : Console.WriteLine("Incorrect!")
```

```
End If
```

```
Console.Write("Continue? Press y to continue:")
```

```
con = Console.ReadLine().ToString()
```

```
Loop
```

```
Console.ReadLine()
```

```
End Sub
```

```
End Module
```

Exercise 2: By using do while loop, write VB.NET program to print the table of characters that are equivalent to the Ascii codes from 1 to 122. The program will print the 10 characters per line.

Solution:

```
Module Module1
```

```
Sub Main()
```

```
Dim i As Integer = 1
```

```
Do While i <= 122
```

```
    Console.Write("{0,4}", Chr(i).ToString())
```

```
    If (i Mod 10 = 0) Then
```

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```
    Console.WriteLine()  
End If  
i = i + 1  
Loop
```

```
Console.ReadLine()
```

```
End Sub
```

```
End Module
```

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