

High-Level Language Comparison

Python	Visual Basic	C#
Variable declaration and assignment		
num = 12	Dim num As Integer = 12	int num = 12;
Input and output		
name = input("Enter your name: ") print("Hello", name)	Console.WriteLine("Enter your name: ") Dim name As String = Console.ReadLine() Console.WriteLine("Hello " + name)	Console.WriteLine("Enter your name: "); String name = Console.ReadLine(); Console.WriteLine("Hello " + name);
Selection		
time = 22 if time < 10: print("Good morning.") elif time < 20: print("Good day.") else: print("Good evening.")	Dim time As Integer = 22 If time < 10 Then Console.WriteLine("Good morning.") ElseIf time < 20 Then Console.WriteLine("Good day.") Else Console.WriteLine("Good evening.") End If	int time = 22; if (time < 10) { Console.WriteLine("Good morning."); } else if (time < 20) { Console.WriteLine("Good day."); } else { Console.WriteLine("Good evening."); }

Python**Visual Basic****C#****Definite iteration**

```
for i in range (0, 5):  
    print(i)
```

```
For i As Integer = 0 To 4  
    Console.WriteLine(i)  
    Next
```

```
for (int i = 0; i < 5; i++)  
{  
    Console.WriteLine(i);  
}
```

Indefinite iteration

```
i = 0  
while i < 5:  
    print(i)  
    i += 1
```

```
Dim i As Integer  
While i < 5  
    Console.WriteLine(i)  
    i += 1  
End While
```

```
int i = 0;  
while (i < 5)  
{  
    Console.WriteLine(i);  
    i++;  
}
```

Random numbers

```
import random  
myNum = random.randint(1, 7)
```

```
Dim r As New Random  
Dim myNum As Integer = r.Next(1, 6)
```

```
Random r = new Random();  
Int myNum = r.Next();
```

Subroutines

```
def SayHello():  
    print("Hello!")
```

```
Sub SayHello()  
    Console.WriteLine("Hello!")  
End Sub
```

```
static void SayHello()  
{  
    Console.WriteLine("Hello!");  
}
```