Python Decision Making Statements

With decision making statement like if, if…else, elseIf, switch, etc, you can easily take decision based on different conditions. In this lesson we will learn how to work with Python Decision Making Statements. In the previous lesson we learned how to work with loops in Python.

if statement in Python

The *if* decision making statement in Python executes the code, if the condition is true.

Syntax

Here's the syntax,

```
if condition:
    code will execute if condition is true;
```

Example

The following is an example showing the usage of if statement in Python,

```
print ('Studyopedia: Never Stop Learning')

#if statement
myVar = 35
if myVar:
    print (myVar)
```

Output

The following is the output,

```
D:\MyPython>python studyopedia.py
Studyopedia: Never Stop Learning
35
```

if...else in Python

The *if...else* decision making statement in Python executes some code if the condition is true and another code if the condition is false. The false condition comes under *else*.

Syntax

Here's the syntax,

```
If condition:
    code will execute if condition is true
else:
    code will execute if condition is false
```

Example

The following is an example showing the usage of *if...else* statement in Python,

```
print ('Studyopedia: Never Stop Learning')

myVar = 8

#if-else statement
if myVar < 2 :
    print "Value is less than 5!"
else:
    print "Value is more than 5!"
```

Output

The following is the output,

```
D:\MyPython>python studyopedia.py
Studyopedia: Never Stop Learning
Value is more than 5!
```

if...elif...else in Python

...else in Python

The *if...elif...else* statement in Python execute code for different conditions. If more than 2 conditions are **true**, you can use else for the **false** condition.

Syntax

Here's the syntax,

```
if condition1:
    code will execute if condition is true
elif condition2:
    code will execute if another condition is true
elif condition3:
    code will execute if above conditions aren't true
else:
    code will execute if all the above given conditions are fal
```

Example

The following is an example showing the usage of *if...elif...else* statement in Python,

Here, **myVar = 8** and the *else* condition will get executed.

```
print ('Studyopedia: Never Stop Learning')

myVar = 8

#if-elif-else statement
if myVar < 8:
    print "Value is less than 8!"
elif myVar > 8:
    print "Value is greater than 8!"
else:
    print "Value is equal to 8!"
```

Output

The following is the output,

```
D:\MyPython>python studyopedia.py
Studyopedia: Never Stop Learning
Value is equal to 8!
```

In this lesson we learned how to work with decision making

In this lesson we learned how to work with decision making statements in Python.