PYTHON CONDITIONAL STSTEMENT & LOOPS

BY

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IF

if Statements

It consists of a Boolean expression which results is either TRUE or FALSE followed by one or more statements.

if expression:

#execute your code

if expression:

#execute your code

else:

#execute your code

if expression:

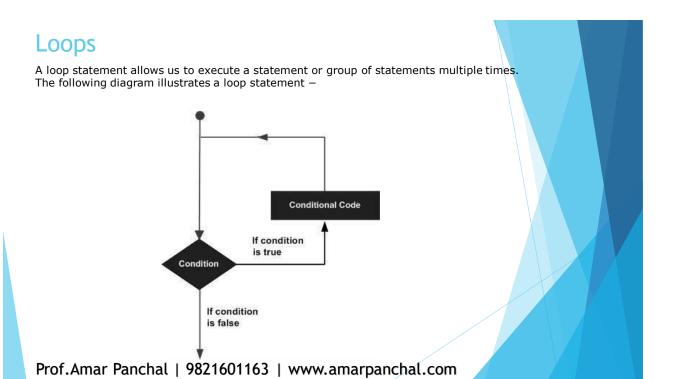
#execute your code

elif expression:

#execute your code

else:

#execute your code



While

```
Syntax
while expression:
    statement(s)

Ex

count = 0
while (count < 5):
    print ('The count is:', count)
    count = count + 1

print ("Good bye!")

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```

for Loop

Syntax

for iterating_var in sequence:
 statements(s)

► The range() function

The built-in function range() is the right function to iterate over a sequence of numbers. It generates an iterator of arithmetic progressions.

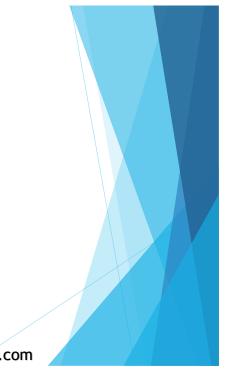
Example

>>> range(5)

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For Loop

- For i in range(5):
 print(i)
- For i in "python": print(i)



Loop Control Statements

S.No.	Control Statement & Description
1	break statement: Terminates the loop statement and transfers execution to the statement immediately following the loop.
2	continue statement: Causes the loop to skip the remainder of its body and immediately retest its condition prior to reiterating.
3	pass statement: The pass statement in Python is used when a statement is required syntactically but you do not want any command or code to execute.

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```
for letter in 'Python':
    if letter == 'h':
        break
    print ('Current Letter :', letter)
```

```
var = 5
while var > 0:
    print ('Current variable value :', var)
    var = var -1
    if var == 2:
        break
print ("Good bye!")
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```

```
for letter in 'Python':

if letter == 'h':

pass

print ('This is pass block')

print ('Current Letter :', letter)

print ("Good bye!")

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```

Single Statement Suites

```
flag = 1
while (flag): print ('Given flag is really true!')
print ("Good bye!")
```



```
no = int(input('any number: '))
numbers = [11,33,55,39,55,75,37,21,23,41,13]
  for num in numbers:
    if num == no:
        print ('number found in list')
        break
  else:
    print ('number not found in list')
```

```
numbers = [11,33,55,39,55,75,37,21,23,41,13]

for num in numbers:
    if num%2 == 0:
        print ('the list contains an even number')
        break
else:
    print ('the list does not contain even number')
```