

flow_controls

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1 Flow Control Statements of Python

1. Conditional Statements

[]: Syntax 1:

```
if condition:
    action
else:
    action
```

Syntax 2:

```
if condition:
    action

elif condition:
    action
else:
    action
```

Syntax 3:

```
if condition:
    action
```

[4]: *# Example: WAP to take string as input and compare it with 'Durga'. Are equal or not*

```
s=input("Enter your name: ")

if s.lower()=='durga':
    print("Matched, What can I do for you Maalik??")
else:
    print("Not Matched, Get lost right now")
```

Enter your name: durga

Matched, What can I do for you Maalik??

```
[6]: # Example: WAP to take 3 inputs and find which is maximum

a,b,c=[int(x) for x in input("Enter 3 numbers: ").split(',')]

if a>b and a>c:
    print("%i is Maximum" %a)
elif b>a and b>c:
    print("%i is Maximum" %b)
else:
    print("%i is Maximum" %c)
```

Enter 3 numbers: 10,20,30

30 is Maximum

[]:

2. Iterative Statements

Those statements executes a block of code for specified times or based on some condition. It is know as iterative statements. 1. For loop 2. While loop

[]: Syntax:

```
# for loop

for x in variable:
    action statements

# while loop

while condition:
    action statements
```

```
[3]: # for loop example
# sum of 1 to 10 numbers
n=10
sum=0
for i in range(1, n+1):
    sum=sum+i

print(sum)
```

55

[4]: # sum of 1 to 10 using while loop

```
n=10
s=0
```

```

while n>0:
    s=s+n
    n-=1

print("The sum: ", s)

```

The sum: 55

[]:

3. Transfer Statements

These are the statements which are used to redirect or discontinue the iteration of loops

1. break
2. continue
3. pass

break : It stopped the execution of loop.

```

[5]: # example:
a=[10,200,30,500,300,250]

for i in a:
    if i>=500:
        print("loop Stopped")
        break
    print("item {}".format(i))

```

```

item 10
item 200
item 30
loop Stopped

```

continue: It return the flow of execution back to the starting point of loop

```

[6]: # example
a=[10,200,30,500,300,250,800,3000,200]

for i in a:
    if i>=500:
        print("item skipped")
        continue
    print("item {}".format(i))

```

```

item 10
item 200
item 30
item skipped
item 300
item 250

```

```
item skipped  
item skipped  
item 200
```

pass: it used when we don't want to give any action statement. It is like a none type

```
[7]: a=[10,200,30,500,3000,250]  
  
for i in a:  
    if i>=500:  
        pass  
    else:  
        print("item {}".format(i))
```

```
item 10  
item 200  
item 30  
item 250
```

```
[ ]:
```