

#if else condition

```
if True:
    print("Condition Pass") # Condition Pass
else:
    print("Condition Fail")
```

```
if False:
    print("Condition Pass")
else:
    print("Condition Fail") # Condition Fail
```

Output

Condition Pass  
Condition Fail

#if else condition

```
userName = "Admin"
userPassword = "Admin"

name = input("Enter your Name: ")
password = input("Enter your Password: ")

if (name == userName and password == userPassword):
    print("Login Success")
else:
    print("Login Failure")
```

Output

Enter your Name: Admin  
Enter your Password: Admin  
Login Success

#elif condition

```
userSalary = float(input("Enter UserSalary: "))
if userSalary == 10000:
    print("No Tax Deductions")
elif userSalary == 20000:
    print("No Tax Deductions")
elif userSalary == 30000:
    print("Tax Deductions")
else:
    print("userSalary out of range")
```

Output

Enter UserSalary: 10000  
No Tax Deductions

#while loop

```
while True:
    print("Condition True") #Infinity loop
```

#while loop

```
while False:
    print("Condition False")
```

#while loop

```
idNumbers = 1
while idNumbers <=5:
    print(idNumbers, end= " ")
    idNumbers += 1 # idNumbers= idNumbers+1, #forgetting this line will result infinite loop
```

Internal

```
"""
print(1<=5)
print(2<=5)
print(3<=5)
print(4<=5)
print(5<=5)"""
```

Output

12345

#for loop

#(end='\n'), and end="" is used to make it printed on the same line.  
 #print(\*objects, sep=' ', end='\n', file=sys.stdout, flush=False)

#Enter a word

```
word = input("Enter a word: ")
for letter in word:
    print(letter, end = " ")
```

Output

Enter a word: hello

h e l l o

```
#find the start index using range  
for i in range(10):  
    print(i, end = " ") #0 1 2 3 4 5 6 7 8 9
```

```
#find the start index and end index using range  
for i in range(0, 6):  
    print(i, end = " ") # 0 1 2 3 4 5
```

```
#find the start index, end index and step over using range  
for i in range(0, 50, 5):  
    print(i, end = " ") #0 5 10 15 20 25 30 35 40 45
```

```

#for loop using negative number
#Start index, end index, Step Over
#When using Higher order to lower order, we use stepover -ve value

for i in range(10, 0, -1):
    print(i, end = " ") #10 9 8 7 6 5 4 3 2 1

```

```

#while loop using negative number
count = 10
while count >= 1:
    print(count, end = " ")
    count -=1

```

```

#10 9 8 7 6 5 4 3 2 1

```

```

"""

```

```

count = count-1 -->10-1 = 9
count = count-1 -->9-1 = 8
count = count-1 -->8-1 = 7
count = count-1 -->7-1 = 6
count = count-1 -->6-1 = 5
count = count-1 -->5-1 = 4
count = count-1 -->4-1 = 3
count = count-1 -->3-1 = 2
count = count-1 -->2-1 = 1
Final value ----->1 >= 1 = 1

```

```

"""

```

#continue -->Skips current iteration

```
for num in range(10):  
    if num == 5:  
        continue  
    print(num, end=" ") # 0 1 2 3 4 6 7 8 9
```

#break -->Break`s the loop

```
for num in range(10):  
    if num == 5:  
        break  
    print(num, end=" ") # 0 1 2 3 4
```