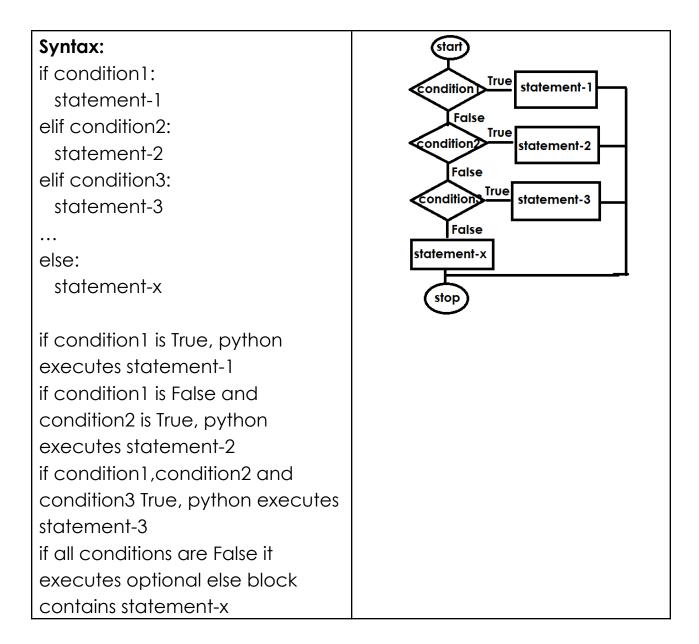
If..elif..else (if..else ladder)

This syntax is used for checking more than one condition or multiple condition.



Example:

Write a program to find input number is +ve,-ve,zero

num=int(input("Enter any integer number"))

```
if num>0:
  print("+ve number")
elif num<0:
  print("-ve number")
else:
  print("zero")
Output
Enter any integer number 9
+ve number
Enter any integer number -9
-ve number
Enter any integer number 0
Zero
Example:
# Write a program to find input character is
# alphabet, digit or special character
ch=input("Single Character")
if (ch>='A') and ch<='Z' or (ch>='a') and ch<='z':
  print("Alphabet")
elif ch>='0' and ch<='9':
  print("Digit")
else:
  print("Special Character")
```

```
Output
```

```
Single Character 0
Digit

Single Character $
Special Character

Single Character B
Alphabet
```

Example:

```
# Write a program to input a single character
# if character is alphabet and uppercase convert into lowercase
# if character is alphabet and lowercase convert into uppercase

ch=input("Enter Single Character")
if ch>='A' and ch<='Z':
    ch=chr(ord(ch)+32)
    print(ch)
elif ch>='a' and ch<='z':
    ch=chr(ord(ch)-32)
    print(ch)
else:
```

Output

Enter Single Character b
B

Enter Single Character \$ input character is not alphabet

print("input character is not alphabet")

Enter Single Character 5 input character is not alphabet

Example:

```
# and find maximum number

n1=int(input("Enter First Number"))
n2=int(input("Enter Second Number"))
n3=int(input("Enter Third Number "))
if n1>n2 and n1>n3:
    print(n1,"is max")
elif n2>n1 and n2>n3:
    print(n2,"is max")
elif n3>n1 and n3>n2:
    print(n3,"is max")
```

Write a program to input 3 integer numbers

Output

Enter First Number10
Enter Second Number20
Enter Third Number 30
30 is max

Enter First Number10
Enter Second Number30
Enter Third Number 20
30 is max

```
Snow Answer
```

Q8. Write a program to calculate the electricity bill (accept number of unit from user) according to the following criteria:

Unit Price
First 100 units no charge
Next 100 units Rs 5 per unit
After 200 units Rs 10 per unit

(For example if input unit is 350 than total bill amount is Rs2000)

Show Answer

```
units=int(input("Units:"))
if units<=100:
    bill=0
elif units>100 and units<=200:
    bill=(units-100)*5
else:
    bill=0+500+(units-200)*10
```

Q1. Write a program to accept percentage from the user and display the grade according to the following criteria:

Marks Grade
> 90 A
> 80 and <= 90 B
>= 60 and <= 80 C
below 60 D

```
p=int(input("Percentage :"))
if p>90:
    print("A Grade")
```

```
elif p>80 and p<=90:
  print("B Grade")
elif p>=60 and p<=80:
  print("C Grade")
else:
  print("D Grade")
  Q2. Write a program to accept the cost price of a bike and display the road tax to be paid according
 to the following criteria:
     Cost price (in Rs)
                                     Tax
                                    15 %
     > 100000
     > 50000 and <= 100000
                                    10%
     <= 50000
                                    5%
  Show Answer
price=int(input("Bike Price:"))
if price>100000:
  tax=price*15/100
elif price>50000 and price<=100000:
  tax=price*10/100
else:
  tax=price*5/100
print(price)
print(tax)
https://www.hackerrank.com/challenges/py-if-else/problem?isFullScr
een=false
n=int(input())
if n%2!=0:
```

```
print("Weird")
elif n>=2 and n<=5:
  print("Not Weird")
elif n>=6 and n<=20:
  print("Weird")
else:
  print("Not Weird")</pre>
```

https://www.codechef.com/practice-old/topics/basic-programming-concepts

https://www.codechef.com/problems/RCBCSK

```
X=int(input("RCB Total Score :"))
Y=int(input("CSK Total Score :"))
if X-Y>18:
    print("RCB Qualify Playoffs")
else:
    print("CSK Qualify Playoffs")
```

```
Why 10%-3 is -2?
>>> 10%3
1
>>> 10%-3
-2
>>> -10%3
2
>>> 10//-3
-4
```

```
>>> -4*-3
12
>>> 12-10
2
>>> -10%3
2
>>> 10%3
```