Identity operator:

is isnot

membership operator:

in notin

bitwise operator:

will teach in class

conditional operator:

it allows us to make decisions in code. they check conditions (expression that result in true or false) and execute different blocks of code accordingly

Types of conditional statement:

- 1. if statement: execute a block only if the condition is true
- 2. if..else statment: provide two paths one if condition is true, another if false
- 3. if..elif..else ladder: multiple conditions checked one by one
- 4. nested if: using one if inside another

Algorithems:

1.if statement: execute a block only if the condition is true

syntax:

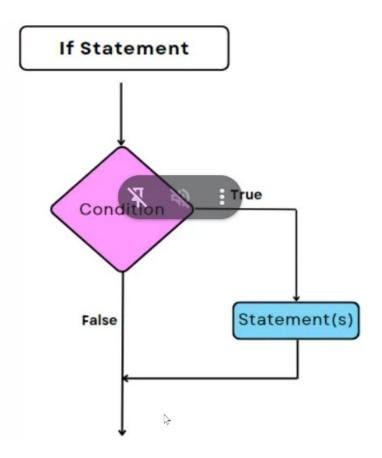
if(condition):

statement

x=10

if (x>5):

print("x is greater then 5")



2. if..else statment: provide two paths - one if condition is true, another if false syntax:

if(condition):

statement

else:

statement

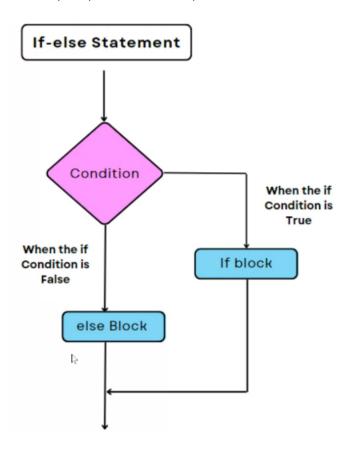
x=10

if (x>5):

print("x is greater then 5")

else:

print("x is less then 5")



3. if..elif..else ladder: multiple conditions checked one by one

syntax:

if(condition1):

statement

elif(condition2):

statement2

elif(condition3):

statement3

else:

statement4

other program

if(condition1):

statement

else:

if(condition2):

statement2

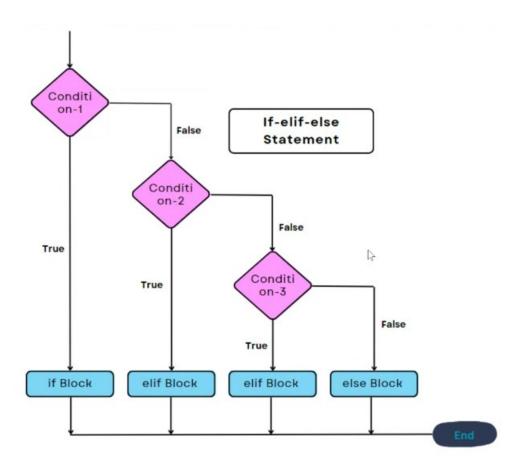
else:

if(condition3):

statement3

else:

statement4



write a program to print eligibility for voting in india

```
print("positive number")
elif(number<0):
       print("negative number")
else:
       print("number is 0")
take input precentage value from user and print their result
85-100 ==> distinction'
60-84 ==> first class
50-59 ==> pass
35-49 ==> pass
0-34 ==> fail
percentage = float(input("enter percentage"))
if(percentage >= 85 and percentage <= 100):
print("distinction")
elif(percentage >= 60 and percentage <=84):
print("first class")
elif(percentage >= 50 and percentage <= 59):
print("second class")
elif(percentage >= 35 and percentage <= 49):
print("pass")
elif(percentage >= 0 and percentage <= 34):
print("fail")
else:
print("enter correct percentage")
```