

9-09-25

September 09

Assignment operators: These are used to assign values to the variables.

Examples:

a = 5

a

5

a += 4

a

10

a -= 3

a

7

a **= 2

a

49

a = a//5

a

9

Identity Operators: Used in loops and conditional statements.

is is not

a = 8

b = 3

a **is** b

False

a **is not** b

True

a = 8

b = 8

a **is** b

True

Membership Operators:

I am the member of your family - **False**

I am **not** a member of your family - **True**

you are a member of your family - **True**

you are **not** a member of your family - **False**

num = [1,8,3,9,0]

1 **in** num

True

2 **in** num

False

8 **not in** num

False

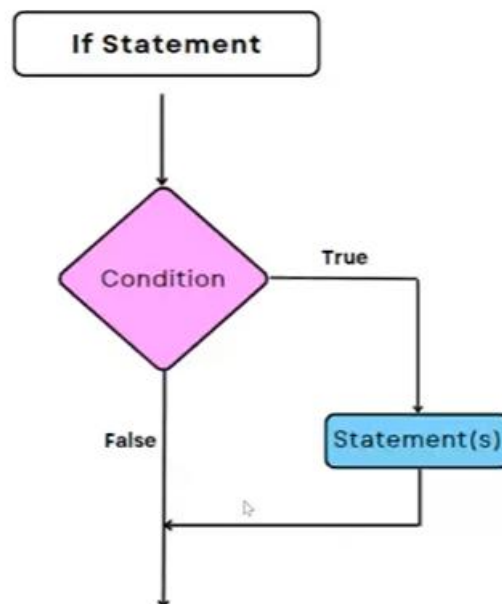
Conditional Statements: It allows us to make decisions in code.

They check conditions(expression in true or false) and execute different blocks of code accordingly.

Types of conditional statements in python:

1. if statement - executes a block only if the condition is true.
2. if.. else statement - provides 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 statement inside another if statement

1. if statement –



Syntax:

```
if(condition):  
    statements
```

Example:

#eligibility checking for election voting in india

```
age = int(input("Enter your age: "))
```

```
country = input("Enter your country : ")
```

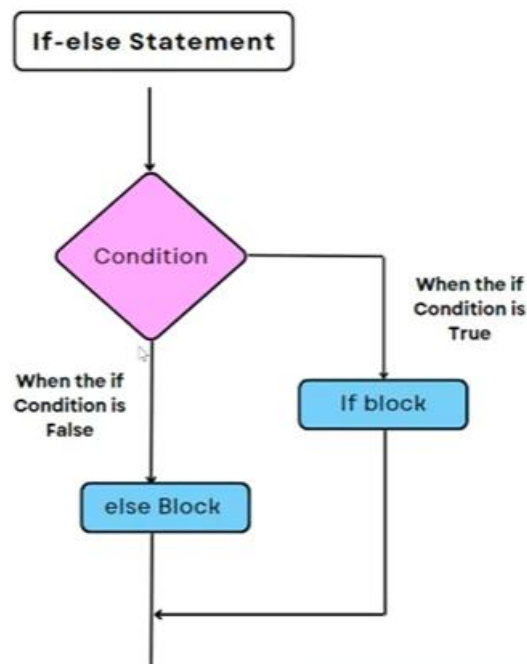
```
if(age>=18 and country=="India"):
```

```
    print("eligible for voting")
```

Enter your age: 12

Enter your country: India

2. if.. else statement –



Syntax:

```
if(condition):
```

```
    statements
```

```
else:
```

```
    statements
```

Example:

#eligibility checking for election voting in India

```
age = int (input ("Enter your age: "))
```

```
country = input ("Enter your country : ")
```

```
country = country.lower()
print(country)
if(age>=18 and country=="india"):
    print("eligible for voting")
else:
    print("Not eligibile for voting")
```

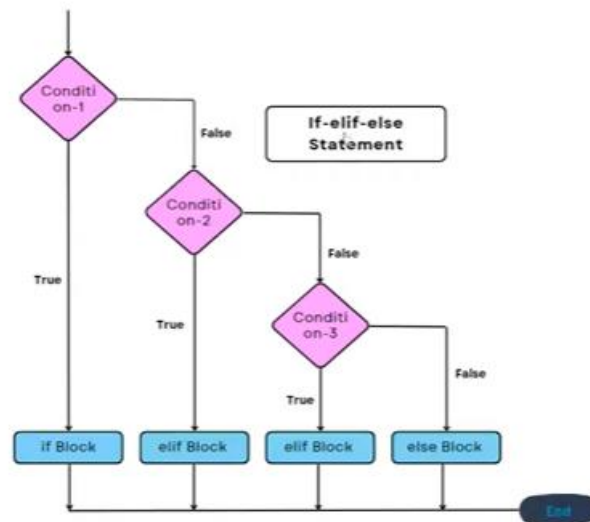
Enter your age: 25

Enter your country : INDIA

india

eligible for voting

3. *if....elif..else ladder –*



Syntax:

```
if(condition1):
    statements of condition 1
elif(condition2):
```

statements of condition 2

elif(condition3):

statements of condition3

else:

else block statements