# **DAY-05**

## 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

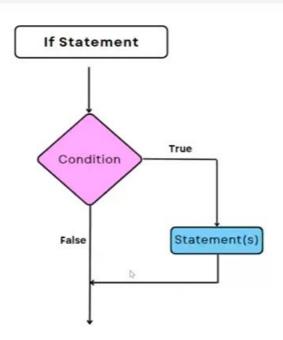
a is b False a is not b True a = 8b = 8a is b True **Membership Operators:** I am the member of your family - False I am **not** a member of your family - **True** you are a member of your family - True you are **not** a member of your family - False num = [1,8,3,9,0]1 **in** num True 2 **in** num False 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"):
```

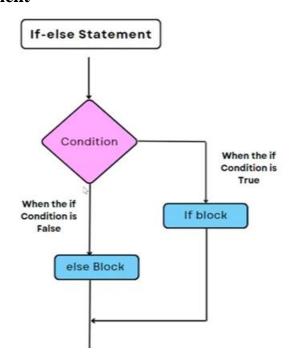
print("eligible for voting")

Enter your age: 12

Enter your country: India

In case of developer checking internal conditions it is fine to use if condition but when we are performing any user based operations it is necessary to use if else to avoid dilemma.

#### 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")
```

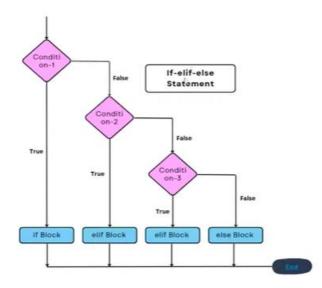
Enter your age: 25

Enter your country: INDIA

india

eligible for voting

## 3. if....elif..else ladder -



## **Syntax:**

if(condition1):

statements of condition1

else:

```
if(condition2):
     statements of condition2
  else:
     if(condition3):
       statements of condition3
     else:
       else block statements
Simplified syntax:
if(condition1):
  statements of condition1
elif(condition2):
  statements of condition2
elif(condition3):
  statements of condition3
else:
  else block statements
```