Conditional Statements in Python

* Conditional statements allow you to execute specific blocks of code based on whether a condition is true or false.
* Conditional statements are:

1. if statement
2. if\_else statement
3. if\_elif\_else statement

**1.if statement:**

* The if statement evaluates a condition and executes the subsequent block of code only if the condition is true.

Example:

number=16

if number > 0:

print (“positive number”)

Output: positive number

* Here number is greater than 0, the output will be positive number. And if statement is true.

**2.if\_else statement:**

* The if...else statement provides an alternative block of code to execute when the condition is false.

**Example-1:**

number=-5

if number > 0:

print (“Positive number”)

else:

print (“Not a positive number”)

Output: Not a positive number

* Here number is not greater than 0, the output will be not a positive number.
* If statement is false so that else block will perform.

**Example - 2:**

age=int (input (“enter the age:”))

if age>=18:

print (“Yes eligible to vote”)

else:

print (“Not eligible to vote”)

Output:1. Enter the age:17

Not eligible to vote

2. Enter the age:20

Yes eligible to vote

**3.If\_elif\_else statement:**

* When you need to check multiple conditions, use elif (short for "else if") to evaluate additional conditions if the previous ones were false.

Example-1:

number=0

if number > 0:

print (“positive number”)

elif number < 0:

print (“Negative number”)

else:

print (“zero”)

Output: Zero

* Here number is 0, the output will be zero. And the if statement and elif statement both are false and execute the else statement.

Example-2:

quality= input (“enter your quality of video and choose here among 360p 480p 1080p 2k:-)

if quality==”2k”:

print (“Your video is playing in 2 quality”)

elif quality ==”1080p”:

print (“Your video is playing in 1080 quality”)

elif quality ==”480p”:

print (“Your video is playing in 480 quality”)

else:

print (“Your video is playing in 360 quality”)

Output: enter your quality of video and choose here among 360p 480p 1080p 2k :- 480

Your video is playing in 480 quality