

* CHAPTER - 6 : CONDITIONAL EXPRESSIONS

- Sometimes, we want to play GTA 5 on our phone if the day is Sunday.

In Python Programming too, we must be able to execute instructions on a condition(s) being met. This is what Conditionals are for!

→ If else and elif in Python

If else and elif statements are a multiway decision taken by our program due to certain conditions in our code.

→ Syntax :

```
if (Condition 1):  
    print ("Yes")  
elif (Condition 2):  
    print ("No")  
else :  
    print ("Maybe")
```

Indentation →

⇒ If Condition 1 is true
⇒ If Condition 2 is true
⇒ Otherwise

→ Code Example :

```
a = 2  
if (a > 9):  
    print ("Greater")  
else :  
    print ("Lesser")
```

→ RELATIONAL OPERATOR

Relational Operators are used to evaluate conditions inside the if statements. Some examples of relational operators are:

`=` `=` → Equals

`>` `=` → greater than/equal to

`<` `=`, etc

→ LOGICAL OPERATOR

In Python, logical operators operate on conditional statements. Example:

and → true if both operands are true else false

or → true if at least one operand is true else false

not → inverts true to false & false to true

→ Elif Clause

Elif Clause in python means [else if]. An if statement can be chained together with a lot of these elif statements followed by an else statement.

NOTE: ① any number of elif statements

if (Condition 1):

Code

elif (Condition 2):

Code

elif (Condition 3):

Code

else:

Code

⇒ This ladder will stop once a condition in an if or elif is met.

② lastly else is executed only if all conditions inside elif fails.