

# Full stack web development using python

## Decision Control



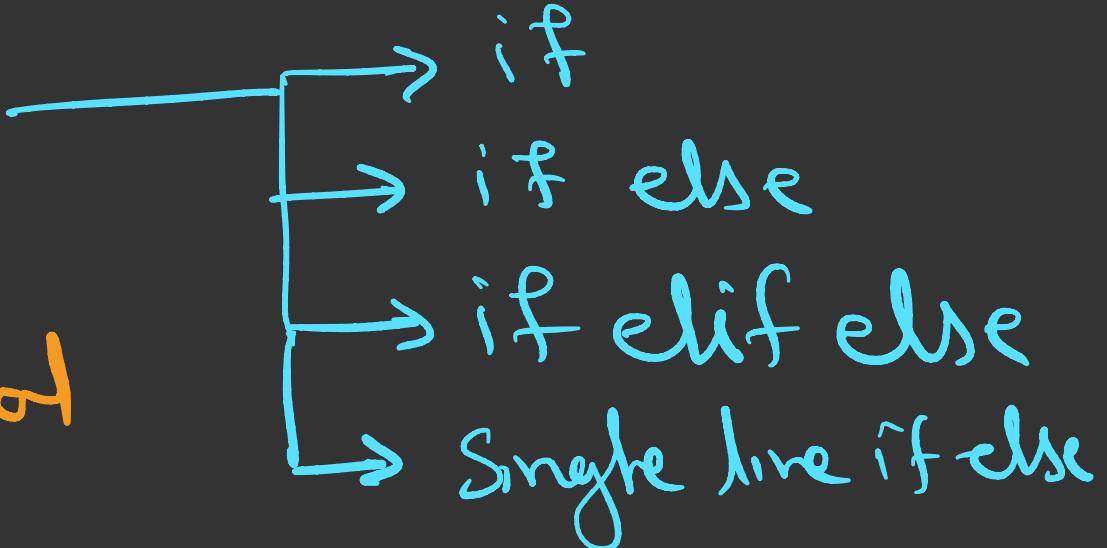
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# Agenda

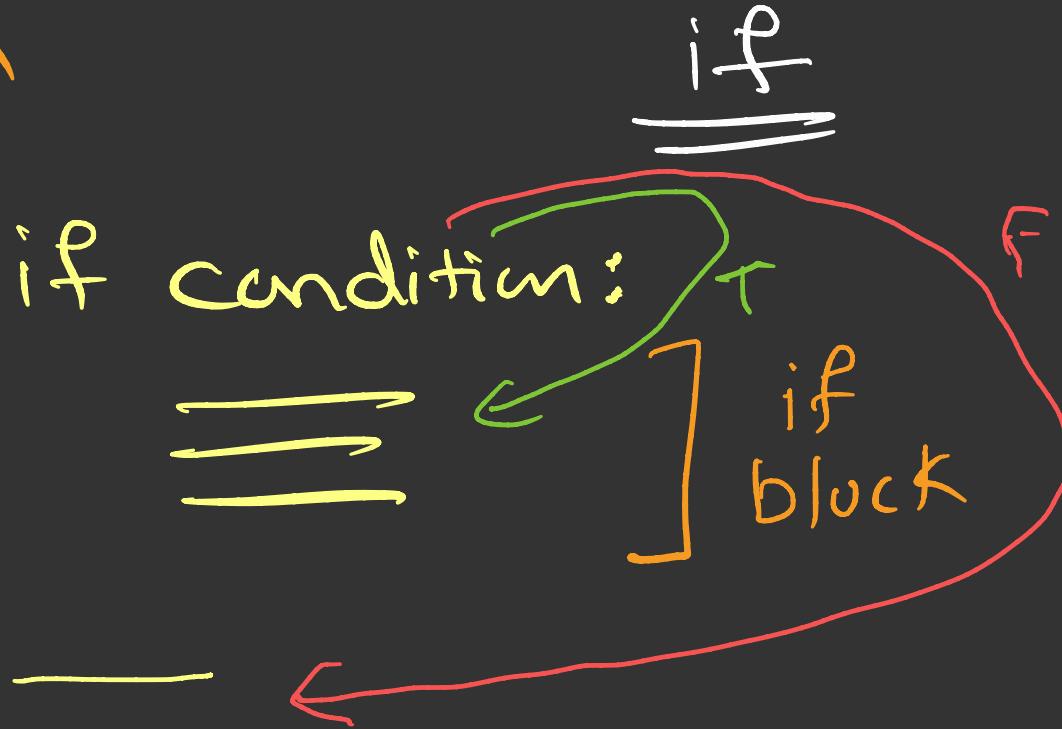
- ① Control Statements.
- ② if
- ③ if else
- ④ if elif else
- ⑤ single line if else

## Control Statement

- ① decision control
- ② match case
- ③ Iterative control



Keyword  
↓



Write a program to check whether  
a given number is positive or non positive

```
x= int (input("Enter a number"))
```

```
if x>0:  
    print ("Positive")
```

```
if x<=0:  
    print ("Non Positive")
```

Keyword

if else

if condition : T

====

if  
block

Keyword → else :

====

else  
block

Note : In every block indentation for every statement must be same.

Write a program to check whether  
a given number is positive or non positive

```
x = int(input("Enter a number"))
```

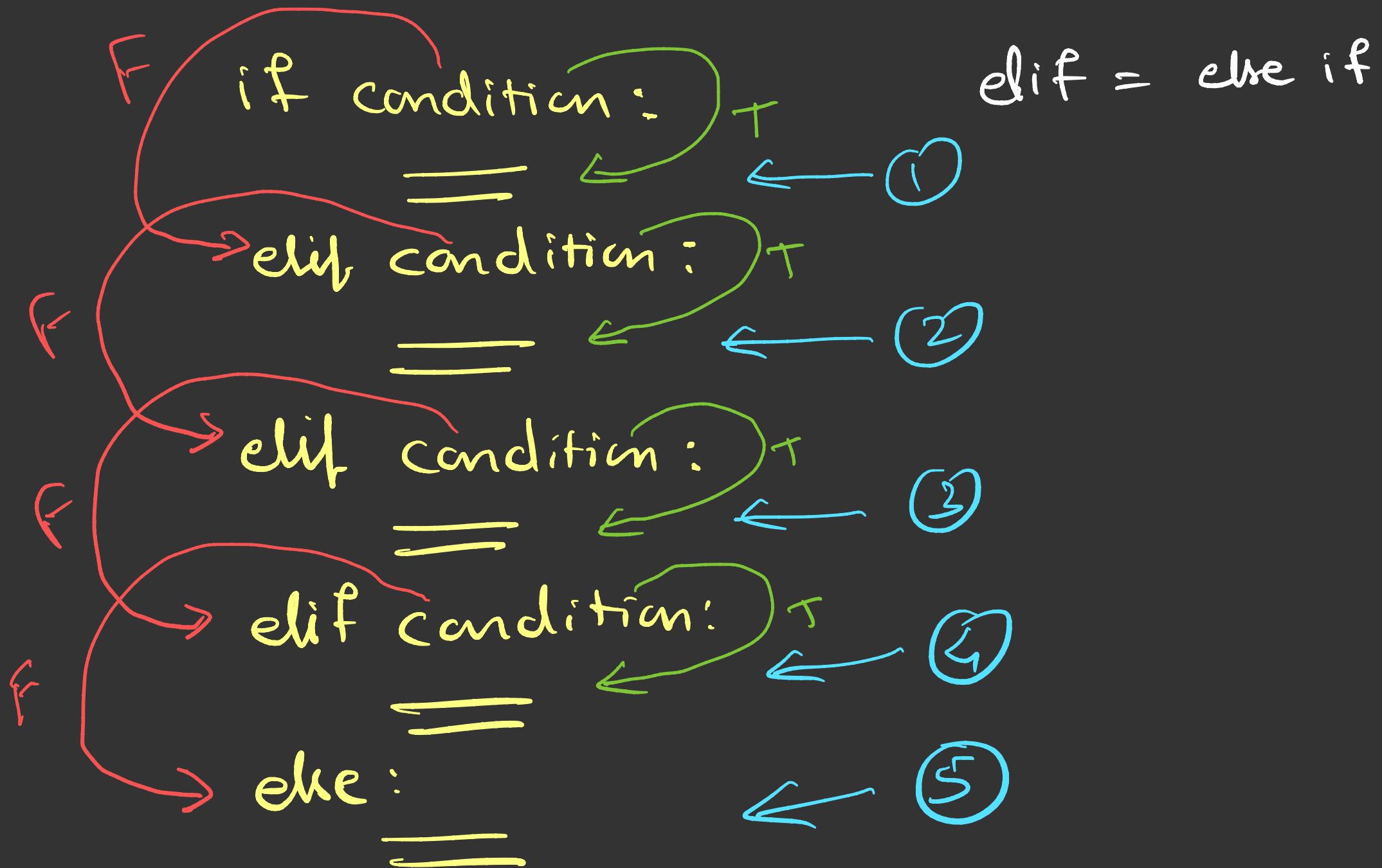
```
if x > 0:
```

```
    print("Positive")
```

```
else:
```

```
    print("Non Positive")
```

if elif else



Write a program to print grade obtained in a test. Take marks obtained from user and display the grade.

90 < marks  $\leq$  100

A

80 < marks  $\leq$  90

B

70 < marks  $\leq$  80

C

60 < marks  $\leq$  70

D

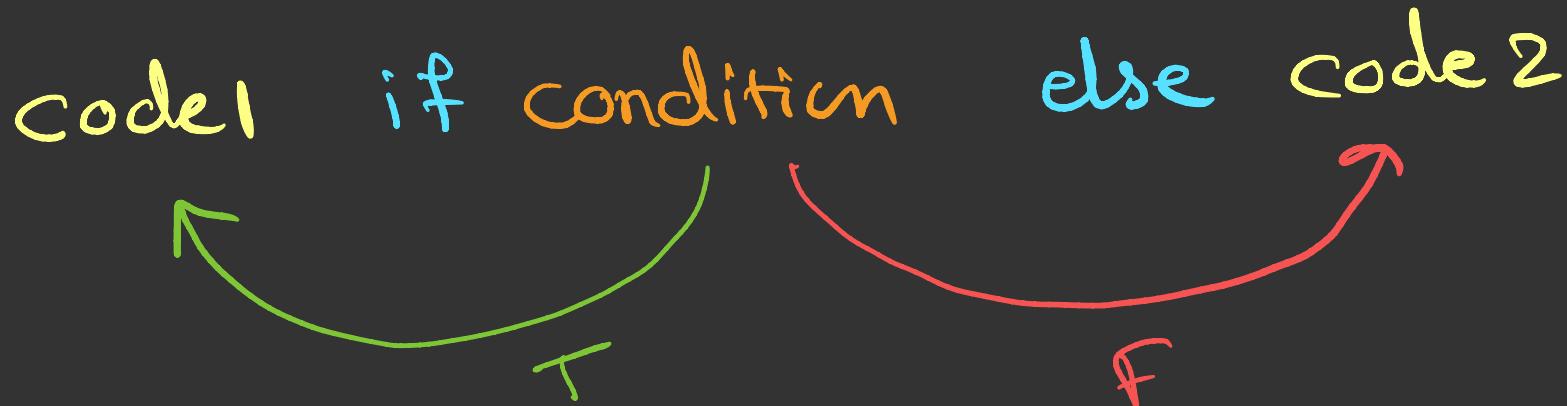
50  $\leq$  marks  $\leq$  60

E

below 50

F

## Single line if else



Single line if else is an expression  
but if else is not an expression

~~x = if --:  
      ==  
    else:  
      ==~~

$x = \text{code1 if condition else code2}$   
 $x = \text{code1}$

Write a python program to check whether a given number is positive or non positive.

```
x= int(input("Enter a number"))
print("Positive") if x>0 else print("Non Positive")
```

# Nested if else

if condition :



if condition :



else :



else :

