

Day - 04

If Statement

If Statement is written by using 'if' keyword

The following conditions are ~~sex~~ most commonly using in If statements.

Equals : $a == b$

Not Equal : $a != b$

Less than ~~or~~ (or) equal to : $a < = b$

Greater than or equal to : $a > = b$

In If statement without indentation will raise an error. and we have to use in Colon (:) in all If condition line.

E.X

$a = 10$.

$b = 15$

If $a > b$:

Print ('a is greater than b')

else:

print ('b is greater than a').

July 2017

S	M	T	W	T	F	S
30	31				1	
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

August 2017

S	M	T	W	T	F	S
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September 2017

S	M	T	W	T	F	S
						1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Elif

'If the previous condition were not true then try 'Elif' condition.

E.x

a = 33

b = 33

if b > a:

print ('b is greater than a')

elif a == b:

print ('a and b are equal')

↳ output 'a and b are equal'.

Else:

'It catches anything which isn't caught by preceding condition.

E.x

a = 200

b = 33

if b > a:

print ('b is greater than a')

elif a == b:

print ('a and b are equal')

else:

print ('a is greater than b')

Short Hand

 $a = 30$ $b = 20$ Print ('a') if $a > 20$ else print ('b')

multiple operation.

 $a = 30$ $b = 25$ Print ('a') if $a > b$ else print ('=') if $a == b$ print ('b')And

The and keyword is a logical operator,
and used to combine conditional statement.

 $a = 200$ $c = 500$ $b = 150$ if $a > b$ and $c > a$

print ('Both condition are True')

(OR)

Condition keyword

 $a = 200$ $b = 150$ $c = 500$ if $a > b$ or $b > c$

print ('At least one of the condition true')

July 2017							August 2017							September 2017						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
30	31				1			1	2	3	4	5							1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30

Nested if.

you can have if statements inside if statements
are called nested if statements.

$x = 4$,

if $x > 10$:

print ('Above ten')

if $x > 20$:

print ('and also above 20')

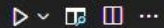
else:

print ('but not above 20')



Get Started

Doy04_problem.py X



C: > Users > abinaya > Desktop > vs code > Doy04_problem.py > ...

```
1 #given data uthai college semester credit credit>65 means overload,credit<35 means underload,otherwise normal
2 credit_value=int(input('enter the credi_88value : '))
3 if(credit_value>65):
4     print('this semester is overload')
5 elif(credit_value<35):
6     print('this semester is underload')
7 else:
8     print('this is normal semester')
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + -

```
enter the credi_value : 25
this semester is underload
PS C:\Users\abinaya> python -u "c:\Users\abinaya\Desktop\vs code\Doy04_problem.py"
enter the credi_value : 57
this is normal semester
```