

Ch-6 (Conditional Expression)

conditional is [if, else, elif]

Code

```
a = int(input("Enter your age:"))
```

```
if (a >= 18): # colon means that now you enter in if.  
    print("you can drive")
```

```
else:
```

```
    print("you can not drive")
```

output

Enter your age: 16
you can not drive

o # code with if, elif, else

```
a = int(input("Enter your age:"))
```

```
if (a >= 18):
```

```
    print("you can drive")
```

```
    print("good go for drive")
```

```
elif (a < 0):
```

```
    print("you are entering negative age")
```

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elif (a == 0):
 print("0 is not valid age")

else:
 print("you are below the age")

if else and elif statements are multi-way decision taken by our program due to certain conditions in our code.

Q Quick test
write a program to print yes when the age entered by the user is greater than or equal to 18

```
age = int(input("Enter your age:"))
```

```
if (age >= 18):  
    print("yes")
```

```
else:  
    print("no")
```

Relational operators

==

>=, >

<=, <

logical operators

• and	✓ x	x
• or	✓ x	✓
• not	✓	off

Practice set of ch = 6

Q1 Write a program to find the greatest of four number entered by user.

```
a1 = number1 = int(input("enter no.1"))
a2 = number2 = int(input("enter no.2"))
a3 = number3 = int(input("enter no.3"))
a4 = number4 = int(input("enter no.4"))
```

```
if (a1 > a2 and a1 > a3 and a1 > a4):
    print("greatest number is a1:", a1)
```

```
elif (a2 > a1 and a2 > a3 and a2 > a4):
    print("greatest number is a2:", a2)
```

```
elif (a3 > a1 and a3 > a2 and a3 > a4):
    print("greatest number is a3:", a3)
```

```
elif (a4 > a1 and a4 > a2 and a4 > a3):
    print("greatest number is a4:", a4)
```

Q2 Write a program to find out whether a student has passed or failed if it requires total 40% and at least 33% in each subject to pass. Assume 3 subjects and take marks as an input for use?

```
marks1 = int(input("Enter marks 1:"))
marks2 = int(input("Enter marks 2:"))
marks3 = int(input("Enter marks 3:"))
```

total percentage = (marks1 + marks2 + marks3) / 300

if (total percentage >= 40 and marks1 >= 33 and marks2 >= 33 and marks3 >= 33):
print("you are pass")

else:
print("you failed")

Q3 A Spam Comment is defined as a text containing following keywords: make a lot of money, buy now, click this

```
s1 = "make a lot of money"
s2 = "buy now"
s3 = "click this"
```

message = input("Enter your comment")

if (s1 in message or s2 in message or s3 in message):
print("This is spam")

else:
print("This is not a spam")

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Q4 Write a program to find whether a given username contains less than 10 characters or not.

```
username = input("Enter your username")
```

```
if (len(username) < 10):
```

```
    print("username is less than 10 char")
```

```
else:
```

```
    print("OK")
```

Q5 Write a program which finds out whether a given name is present in a list or not.

```
l = ["Vidhi", "Vinita", "Kritika"]
```

```
name = input("Enter your name")
```

```
if (name in l):
```

```
    print("your name is in the list")
```

```
else:
```

```
    print("your name is not in the list")
```

Ch=7 Loops in Python

```
for i in range(1, 6):  
    print(i)
```

output
1
2
3
4
5

while loop

```
# code  
i = 1  
while (i < 6):  
    print(i)  
    i += 1
```

output
1
2
3
4
5

Q `l = [' ', 'Harsh', 'Vidhi', 'Ratna', 1, False]`

```
i = 0  
while (i < len(l)):  
    print(l[i])  
    i += 1
```

for loop

```
for i in range(4):  
    print(i)
```

output
0
1
2
3

for loop in list

```
l = [1, 4, 6, 346, 6, 764]
for i in l:
    print(i)
```

Output

```
1
4
6
346
6
764
```

for loop in tuple

```
t = (6, 231, 75, 122)
for i in t:
    print(i)
```

Output

```
6
231
75
122
```

for loop in string

```
s = "Vidhi"
for i in s:
    print(i)
```

Output

```
V
i
d
h
i
```

for loop with else

```
l = [1, 7, 8]
```

```
for item in l:
    print(item)
```

```
else:
    print("done")
```

Output

```
1
7
8
done
```

The Break statement

Code

```
for i in range(100):
    if (i == 34):
        break
    print(i)
```

Exit

break 34 ke bad stop
ho jae ga

The continue Statement

Code

```
for i in range(100):
    if (i == 34):
        continue
    print(i)
```

skip

continue 34 ko skip kar
ke 35 se continue kar
ga print kar na.

Pass statement

```
for i in range(100):
```

```
    i = 0
    while (i < 45):
        print(i)
        i += 1
```

output

Error bole ga ki ek loop
aacha chod diya use pura
Kas pur nahi ke bad me kam
hai abhi nahi

```
for i in range(100)
```

```
    Pass
    i = 0
    while (i < 45):
        print(i)
        i += 1
```

output

run ho jae ga ~~2nd~~ loop 1st wali
ke diye error show nhi kar.
baad me kare jae null statement
holi hai