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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 # Look 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")
```

```
if (a == 0)  
    print ("a 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")
```

Q) else *

```
print ("no")
```

Relational Operators

= =

>= , >

<= , <

logical operators

and	✓ X	X
or	✓ X	✓
not	✓	opposite

[Practice set of
ch: 6]

Q) Write a program to find the greatest of four numbers entered by user.

a1 = ~~number1~~ = int(input("Enter no.:"))

a2 = ~~number2~~ = int(input("Enter no.:"))

a3 = ~~number3~~ = int(input("Enter no.:"))

a4 = ~~number4~~ = int(input("Enter no.:"))

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)

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Q2 Write a program to find out whether a student has passed or failed if it requires total 100 and at least 33% in each subject to pass. Assume 3 subjects and take marks as input from user?

```
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 \geq 40 and marks1 \geq 33 and marks2 \geq 33 and marks3 \geq 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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Q) Write a program to find whether a given usename contains less than 10 characters or not.

A) Usename = input ("Enter your usename")

```
if (len(Usename) < 10):  
    print ("Usename is less than 10 char")
```

```
else:  
    print ("OK")
```

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

A) 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")
```

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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

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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

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The Break statement

Code

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

exit

break J4 ke bad stop
hoga ga

The Continue Statement

Code

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

skipped

continue J4 ko skip kar
ke J5 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 bol ga ki ak loch
andha chod diya usi praa
Kao pur mukhi ko bad me karna
tak abhi nahi

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

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

output

num hoga ga 2nd loop 1st val
ke liye use show nhi karne
baad me karne jere null statement
nahi hai