



# If-Else Statement

The if-else statement evaluates the test expression

execute if block when condition is True

execute else block if condition is false

Indentation is used to separate the blocks.

# Syntax:

If (expression) :

Statement 1

Statement 2

else :

Statement 3

Statement 4

Indendation and colon important for else else

Q: Write a program to check if the number is less than 10?

```
num = int(input("enter a num"))
```

```
enter a num 100
```

```
if(num<10):
```

```
    print("less than 10")
```

```
else:
```

```
    print("greater than 10")
```

```
greater than 10
```

## The if - elif - else Statement

elif is shorter for else if, it is used to check for multiple conditions.

If condition of 'if' is false, it checks for subsequent 'elif' block till condition is true.

If all the conditions are false, then else is executed.

Syntax:-

if (expression):

Statement 1

Statement 2

elif (expression 2):

S1

S2

elif (expression 3):

S1

S2

else :

S1

S2

We can have multiple of these elif statements.

Only a single condition can be executed.

Q: WAP to take a char input from the user  
and check if its

(a) capital letter

(b) small letter

(c) digit

(d) special symbol

```
charInp = input("Enter a character")
```

```
Enter a character 8
```

```
if (charInp >= 'a' and charInp <='z'):  
    print("its a small char")  
    #print("another statement")  
elif (charInp >= 'A' and charInp <='Z'):  
    print("Its a capital")  
elif (charInp >= '0' and charInp <='9'):  
    print("its a number")  
else :  
    print("its a special symbol")
```

```
its a number
```

```
ord(charInp)
```

```
65
```