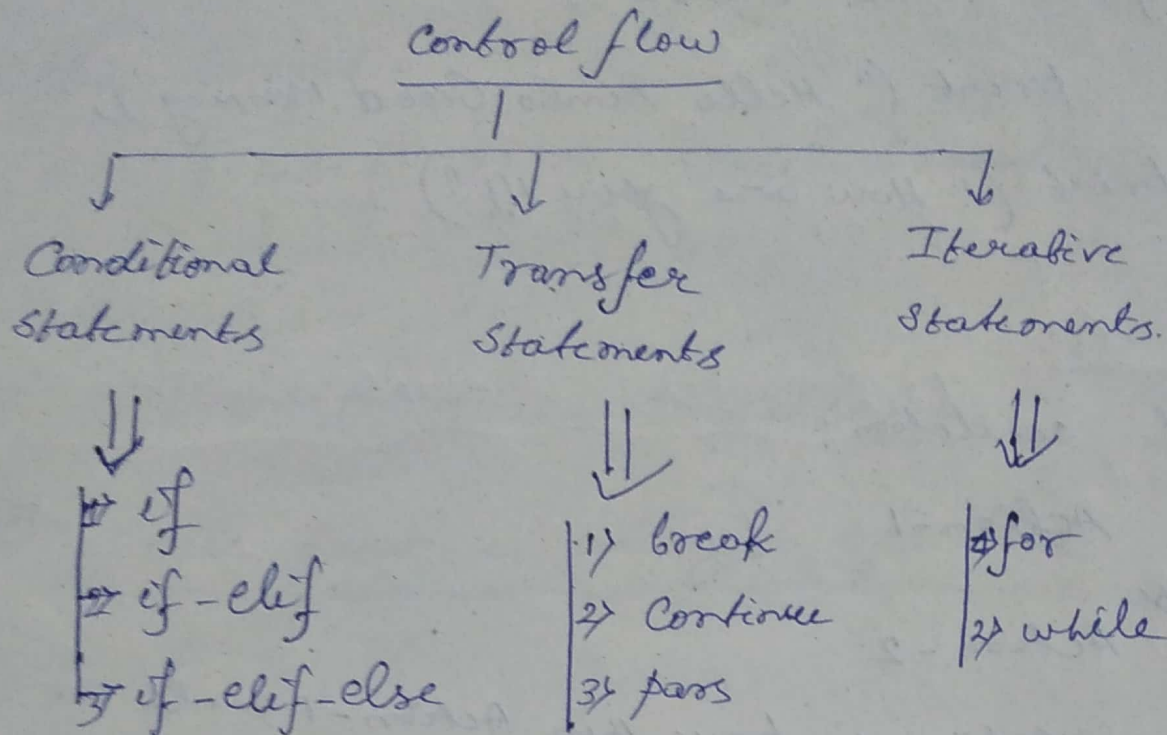


## Module II

### Conditions & Iterations



#### ① Conditional Statements

##### ① if

if condition : Statement

or

if condition :

Statement - 1

Statement - 2

Statement - 3

if condition is true then statements will be executed

Eg 1-

if

```
name = input("Enter Name:")
```

```
if name == "Bimbo":
```

```
    print("Hello Bimbo Good Morning");
```

```
    print("How are you!!!")
```

(2) if-else

```
if condition:
```

```
    Action-1
```

```
else
```

```
    Action-2
```

if condition is true then Action-1 will be executed otherwise Action-2 will be executed.

Eg. 2

```
name = input("Enter Name:")
```

```
if name == "Bimbo":
```

```
    print("Hello Bimbo Good Morning")
```

```
else:
```

```
    print("Hello Guest Good Morning")
```

```
    print("How are you!!!")
```

③ Eg 3

if - elif - else :-

```
brand = input("Enter your Favourite Brand:")  
if brand == "CHB":  
    print("It is childrens brand")  
elif brand == "KF":  
    print("It is Female brand")  
elif brand == "MF":  
    print("It is Male brand")  
else:  
    print("Other brands")
```

Note:-

else part is always optional



Note:-

else part is always optional

- 1) if
- 2) if - else
- 3) if - elif - else
- 4) if - elif

Eg 4  
\*

WAP to find biggest of given 2 numbers from  
Command prompt. ?

```
n1 = int(input("Enter first Name:"))
```

```
n2 = int(input("Enter second Name:"))
```

```
if n1 > n2 :
```

```
    print("Biggest Number is:", n1)
```

```
else
```

```
    print("Biggest Number is:", n2)
```

Eg-5

WAP to find biggest of given 3 numbers from command prompt.

$n1 = \text{int}(\text{input}(\text{"Enter First Number:"}))$

$n2 = \text{int}(\text{input}(\text{"Enter Second Number:"}))$

$n3 = \text{int}(\text{input}(\text{"Enter Third Number:"}))$

if  $n1 > n2$  and  $n1 > n3$  :

$\text{print}(\text{"Biggest Number is :"}, n1)$

elif  $n2 > n3$  :

$\text{print}(\text{"Biggest Number is:"}, n2)$

else :

$\text{print}(\text{"Biggest Number is:"}, n3)$

Eg:- 6

WAP to check whether a number is in between 1 and 10?

```
n = int(input("Enter Number:"))
```

```
if n >= 1 and n <= 10:
```

```
    print("The number", n, "is in between 1 to 10")
```

```
else:
```

```
    print("The number", n, "is not in between 1-10")
```

Eg:- 7

WAP to take a single digit number from the key-board and print the week day name as

```
n = int(input("Enter the Numbers:"))
```

```
if n == 1:
```

```
    print("SUNDAY")
```

```
elif n == 2:
```

```
    print("MONDAY")
```

```
elif n == 7:
```

```
    print("SATURDAY")
```

```
else:
```

```
    print("Enter values from 1-7")
```



## Iterative Statements:-

If we want to execute a group of statements multiple times then we should go for iterative statements.

Python supports 2 types of the iterative statements.

① for loop.

② while loop.

Eg 1

Syntax:-

for x in sequence:  
    loop

WAP to print characters present in the given string.

S = "Sachin Tendulkar" output:-

for x in S:  
    print(x).

S  
a  
c  
h  
i  
n  
T  
e  
n  
d  
u  
l  
k  
a