

unit-2 Conditional excecution and iteration

1) Simple if

```
* if condition :  
* ____ Statement  
* eg.
```

```
In [5]: name=input("Enter Your Name - ")  
if name=="Dixit" :  
    print("Hello Dixit")  
print("How r U ???")
```

```
Enter Your Name - Dixit  
Hello Dixit  
How r U ???
```

2) if-else

```
* if condition :  
* ____ Action-1  
* else :  
* ____ Action-2  
* eg
```

```
In [8]: name=input("Enter Your Name - ")  
if name=="Dixit" :  
    print("Hello Dixit")  
    print("How r U ???")  
else :  
    print("Hey Who r U ???")
```

```
Enter Your Name - Patel  
Hey Who r U ???
```

3) if-elif-else

```
* if condition :  
* ____ Action-1  
* elif condition :  
* ____ Action-2  
* elif condition :  
* ____ Action-3  
* else :  
* ____ Default Action  
* eg
```

```
In [17]: a=int(input("Enter a = "))
b=int(input("Enter b = "))
c=int(input("Enter c = "))
if a>b and a>c :
    print("Biggest Number : ",a)
elif b>c:
    print("Biggest Number : ",b)
else :
    print("Biggest Number : ",c)
```

Enter a = 22

Enter b = 72

Enter c = 38

Biggest Number : 72

4) Nested if

```
* if condition :
*   ____ Action-1
*   ____ if condition :
*   ____ Action-2
*   ____ else :
*   ____ default
```

```
In [18]: x=15
if x>10 :
    print("Above 10")
    if x>20 :
        print("Also Above 20")
    else :
        print("Not Above 20")
```

Above 10

Not Above 20

loop

1) for
2) while

```
* 1) for Syntax
* for x in sequence :
*   ____ body
* eg
```

```
In [22]: s="Dixit Patel"
print(len(s))
print()
for i in s :
    print(i)
```

11

D
i
x
i
t

P
a
t
e
l

```
In [30]: l=[1,2,3,4,5,6,7]
for i in l :
    print(i)
```

1
2
3
4
5
6
7

```
In [31]: for i in range(len(l)) :
          print(l[i])
```

1
2
3
4
5
6
7

```
2) While Loop Syntax
* While Condition
* ____ body
* eg
```

```
In [32]: i=0
while i<5:
    print(i)
    i+=1
```

```
0
1
2
3
4
```

```
In [35]: a=0
while a!=38 :
    a=int(input("Enter 38 Plz : "))
    print("Confirmation")
```

```
Enter 38 Plz : 1
Enter 38 Plz : 2
Enter 38 Plz : 3
Enter 38 Plz : 4
Enter 38 Plz : 5
Enter 38 Plz : 6
Enter 38 Plz : 3
Enter 38 Plz : 38
Confirmation
```

Nested Loop

```
In [37]: for i in range(3):
        for j in range(3):
            print(i,j)
```

```
0 0
0 1
0 2
1 0
1 1
1 2
2 0
2 1
2 2
```