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(50)

LECTURE-6

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\* I/p -  $t = (1, 2, 3, 4)$

for i in tup:

Print(i)

O/p -  
1  
2  
3  
4

\* I/p -  $t = (1, 2, 3, 4)$

for i in range(len(tup)):

Print(i)

O/p -  
0  
1  
2  
3

\* I/p -  $t = (1, 2, 3, 4, 5)$

sum = 0

for item in tup:

sum += item

Print('product = {}'.format(prod))

O/p - product = 120.



\* I/p - lst = [10, 20, 30, 40, 50, 60] (51)

```
for index in range(len(lst)):
    Print(lst[index])
```

O/p - 10  
20  
30  
40  
50  
60.

\* I/p - print('LIST ITERATION')

```
lst = [10, 20, 30, 40, 50, 60]
```

```
for element in lst:
```

```
    Print(element, end = ' ')
```

```
Print()
```

```
Print('TUPLE ITERATION')
```

```
tup = (10, 20, 30, 40, 50, 60)
```

```
for element in tup:
```

```
    Print(element, end = ' ')
```

```
Print()
```

```
Print('STRING ITERATION')
```

```
str mystre = 'python'
```

```
for element in mystre:
```

```
    Print(element, end = ' ')
```

```
Print()
```

```
Print('DICTIONARY ITERATION')
```



dict = { }

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dict ['xyz'] = 123

dict ['abc'] = 345

for key in dict:

Print (key, dict [key])

O/p - LIST ITERATION:

10 20 30 40 50 60

TUPLE ITERATION:

10 20 30 40 50 60

STRING ITERATION:

P y t h o n

DICTIONARY ITERATION:

xyz = 123

abc = 345

FOR-ELSE:

The else keyword in a for loop specifies a block of code to be executed when the loop is finished.

\* I/p - for x in range (6):

Print (x)

else:

Print ("FINISHED")



O/p - 0  
1  
2  
3  
4  
5

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FINISHED

\* I/p - tup = (1, 2, 3, 4, 5)

Prod = 1

for item in tup:

Prod \*= item

else :

Print('You have exhausted the list')

Print('product = {}'.format(prod))

O/p - You have exhausted the list.

Product = 120.

NESTED LOOP :

A nested loop is a loop inside a loop. The "inner loop" will be executed one time for each iteration of the "outer loop".



\* i/p - adj = ["red", "big", "tasty"] (54)  
fruits = ["apple", "banana", "cherry"]

```
for x in adj:  
    for y in adj fruits:
```

```
        Print(x, y)
```

o/p - red apple

red banana

red cherry

big apple

big banana

big cherry

tasty apple

tasty banana

tasty cherry.

**BREAK:**

The break keyword is used to break out of  
"a for loop or a while loop".

**NOTE:** Break statements are only allowed  
inside loops.



\* I/p -  $i = 1$

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while  $i < 9$ :

Print( $i$ )

if ( $i == 3$ ):

break

$i += 1$

O/p -

1

2

3

CONTINUE:

The continue keyword is used to end the current iteration in a 'for' loop or in a 'while' loop, and continues to the next iteration.

\* I/p -  $i = 0$

while  $i < 9$ :

$i += 1$

if  $i == 3$ :

continue

Print( $i$ )

O/p -

1

2

4

5

6

7

8

9.



\* I/p - While True:

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num = int(input("Enter a number to  
check if its even or odd:"))

if num % 2 == 0:

Print("yes, you <sup>entered</sup> ~~printed~~ an even  
no.")

else:

break

Print("wrong no., End")

O/p - Enter a number to check if its even or odd  
2

Yes, you entered an even number.

Enter a number to check if its even or odd

wrong number, End.

\* I/p - lst = [1, 2, 3, 4, 5, 1, 2, 3, 4]

ans = 0

for elements in lst:

ans = ans ^ elements

Print(ans)

O/p - 5



\* I/p - if (number\_of\_div == 12):

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Print("Prime")

else:

Print("Not a prime")

O/p - Not a prime.

\* I/p - num = 9

number\_of\_div = 0

for i in range(1, num+1):

if (num % i == 0):

number\_of\_div = number\_of\_div + 1

Print(number\_of\_div)

O/p - 3.

WHY ELSE:

\* I/p - lst = [1, 2, 3, 4, 5]

for item in lst:

if item == 4:

break

Print(item)

else:

Print('HI')

O/p - 1

2

3