BASIC PYTHON
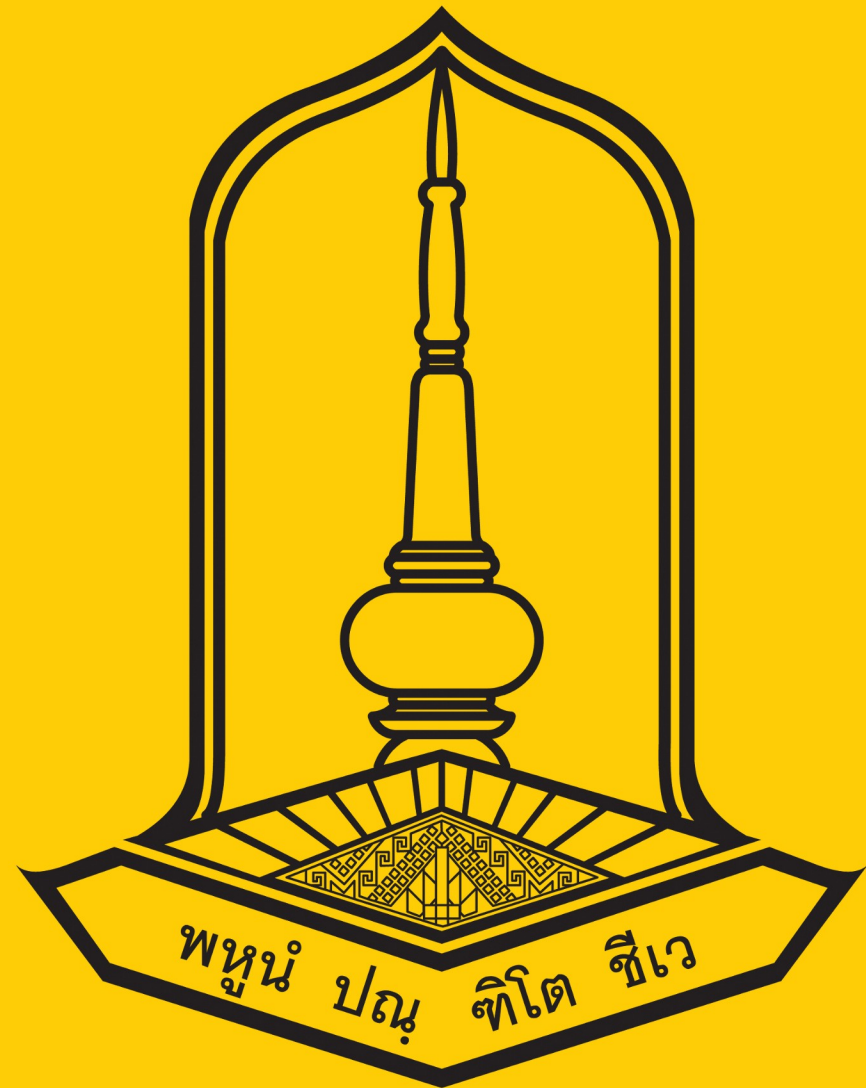
for loop statements

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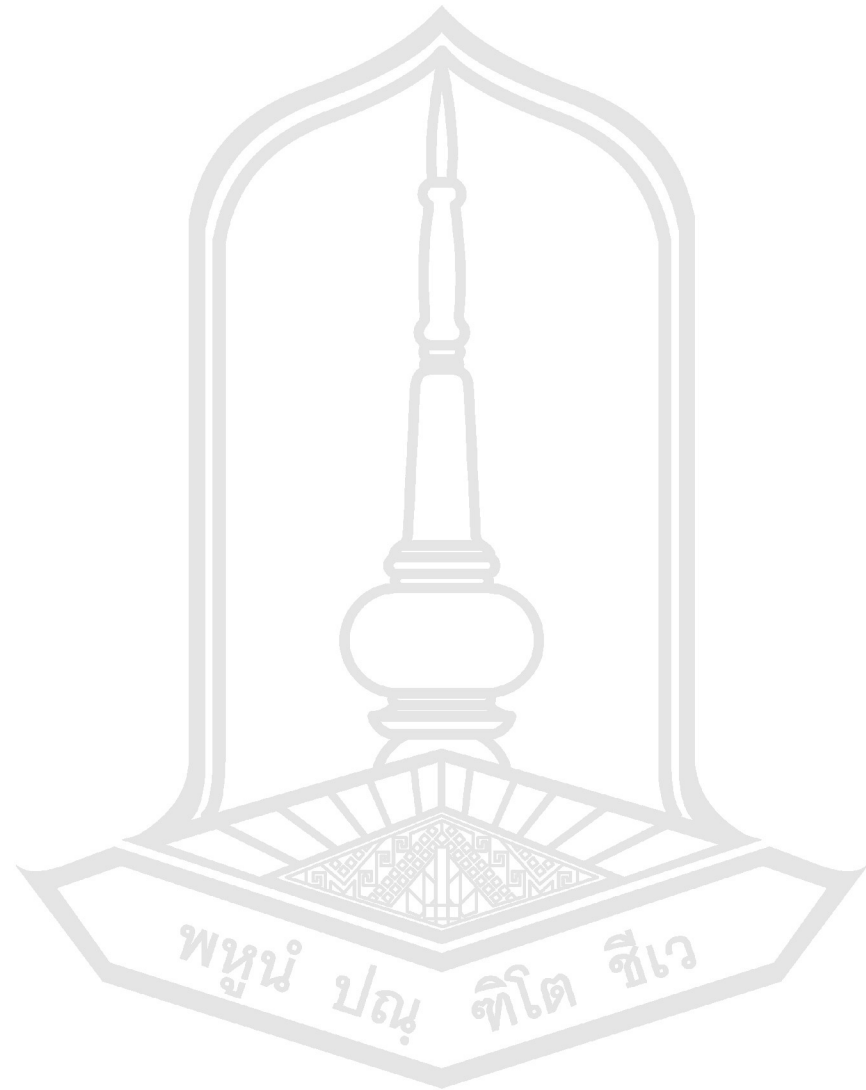UNIVERSITY

BASIC PYTHON

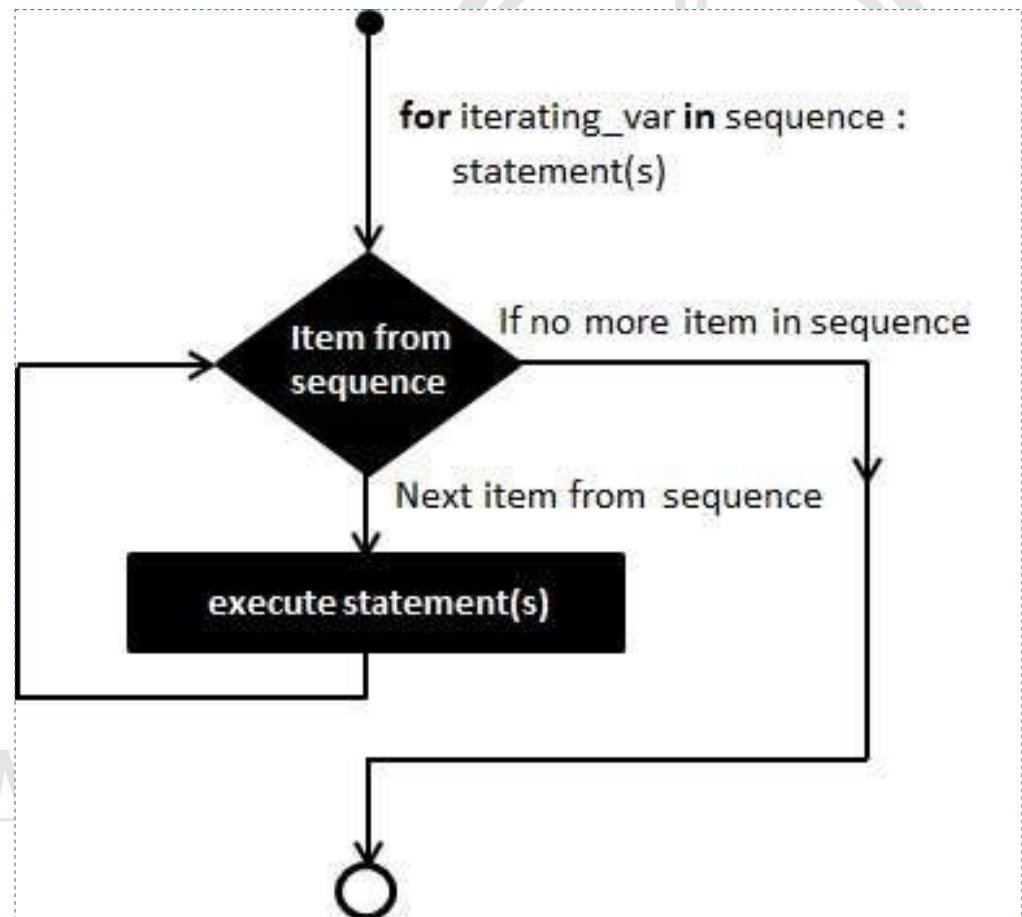for loop statements

Olarik Surinta, PhD
Lecturer

for loop statements

for iterating_var **in** sequence:

    statements(s)

for loop statements

```python
print('Foor loop')
for i in range(1,6):
    print('i = %d'%i)
```
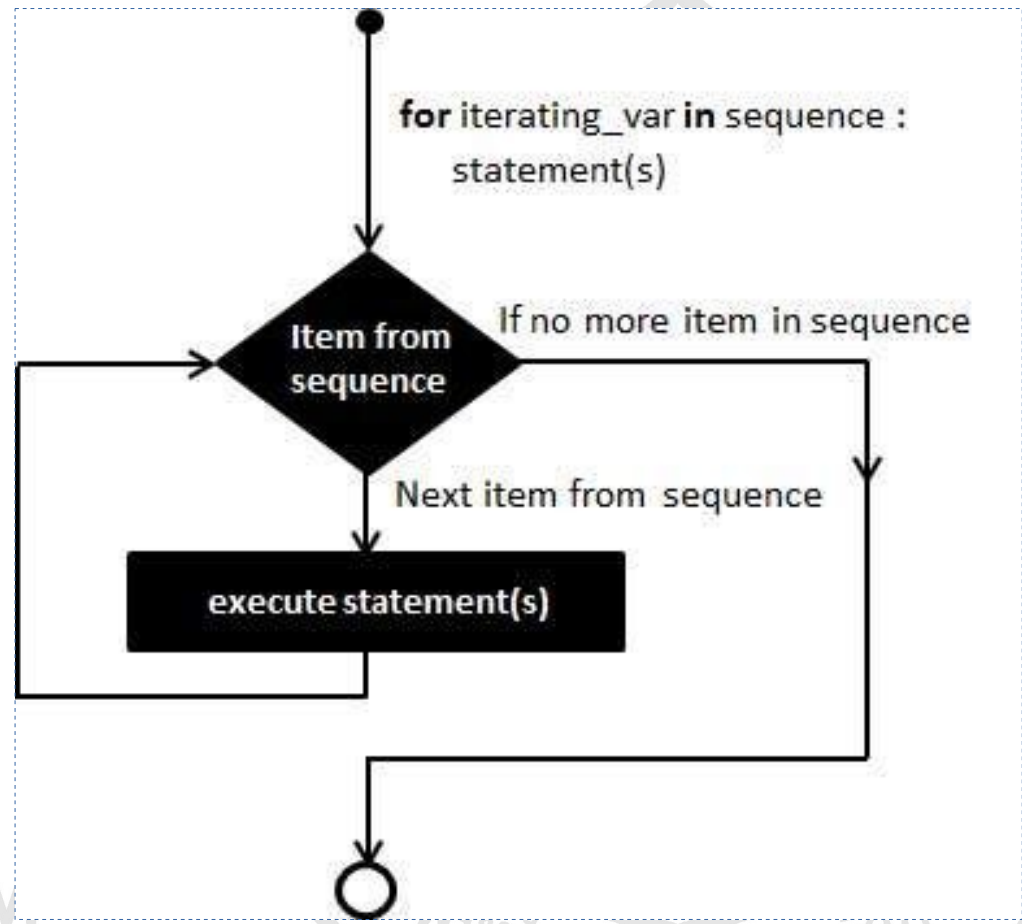
```
Foor loop
i = 1
i = 2
i = 3
i = 4
i = 5
```

```
range(1,6)
```

```
[1, 2, 3, 4, 5]
```


for iterating_var in sequence :
    statement(s)

Item from sequence

If no more item in sequence

Next item from sequence

execute statement(s)

for loop statements

```python
numbers = [1, 3, 5, 7, 9, 11, 13, 15]
for i in numbers:
    print('i = %d'%i)
```

```
i = 1
i = 3
i = 5
i = 7
i = 9
i = 11
i = 13
i = 15
```

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for loop statements

```python
for i in range(1,10,3):
    print('i = %d'%i)
```

```
i = 1
i = 4
i = 7
```
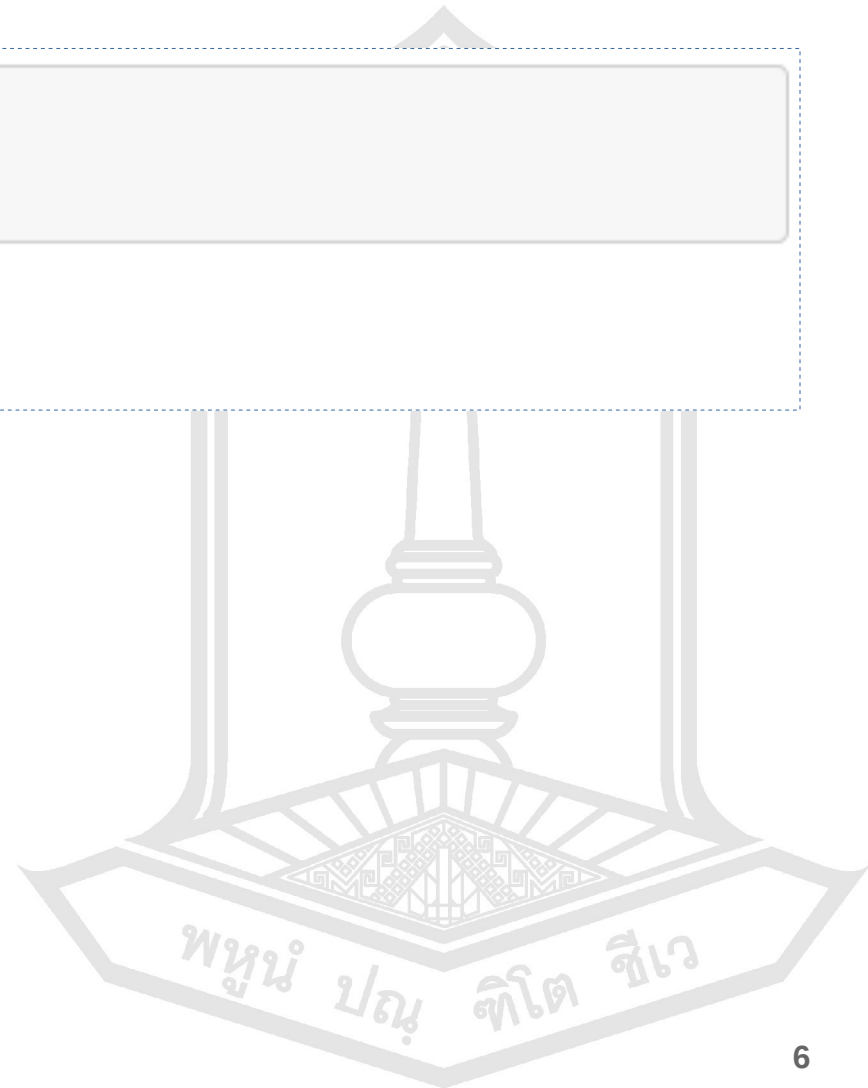
for loop statements

- Output

```
i = 2
i = 4
i = 6
i = 8
```

Practice
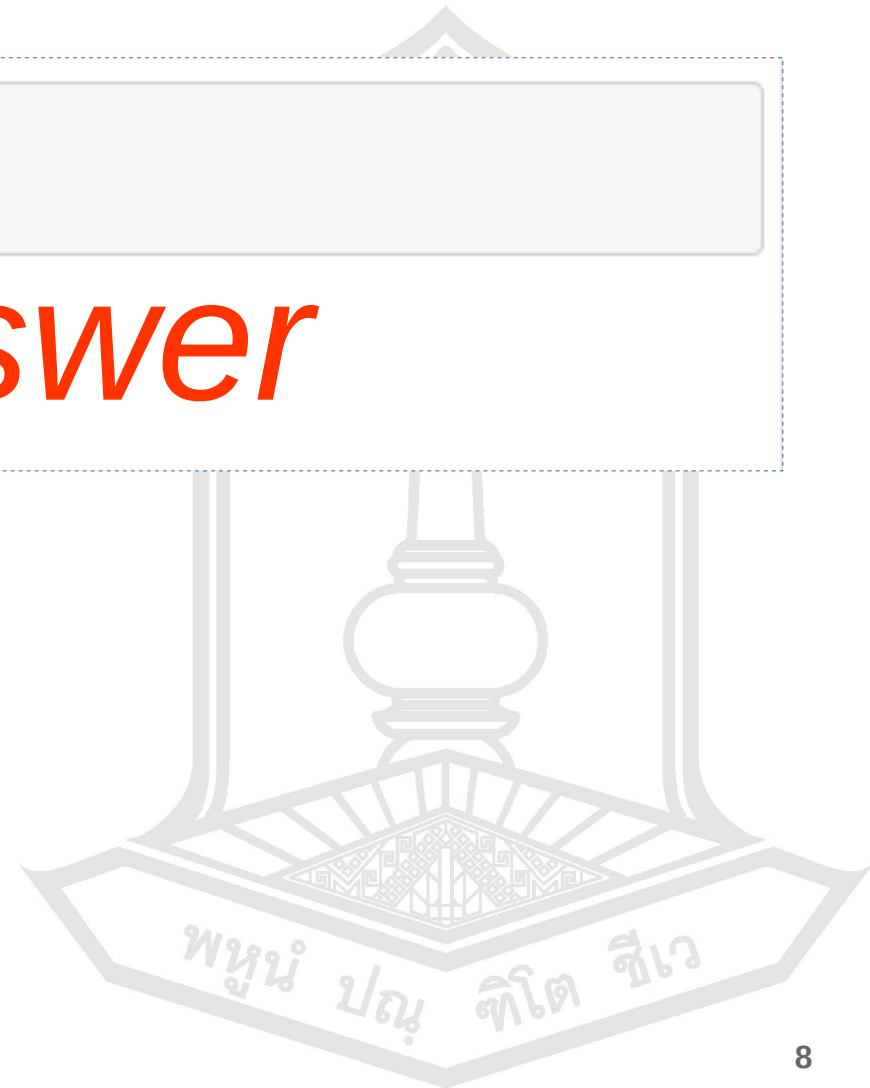
for loop statements

```python
for i in range(2, 10, 2):
    print('i = %d'%i)
```

```
i = 2
i = 4
i = 6
i = 8
```

Answer

for loop statements

- Output

```
i = 10
i = 9
i = 8
i = 7
i = 6
i = 5
i = 4
i = 3
i = 2
i = 1
```

Practice

for loop statements

```python
for i in range(10, 0, -1):
    print('i = %d'%i)
```

```
i = 10
i = 9
i = 8
i = 7
i = 6
i = 5
i = 4
i = 3
i = 2
i = 1
```

Answer

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for loop statements

- Output

```
i = 2
i = 4
i = 6
i = 8
```

Practice

for loop statements

```python
for i in range(2, 10, 2):
    print('i = %d'%i)
```

```
i = 2
i = 4
i = 6
i = 8
```
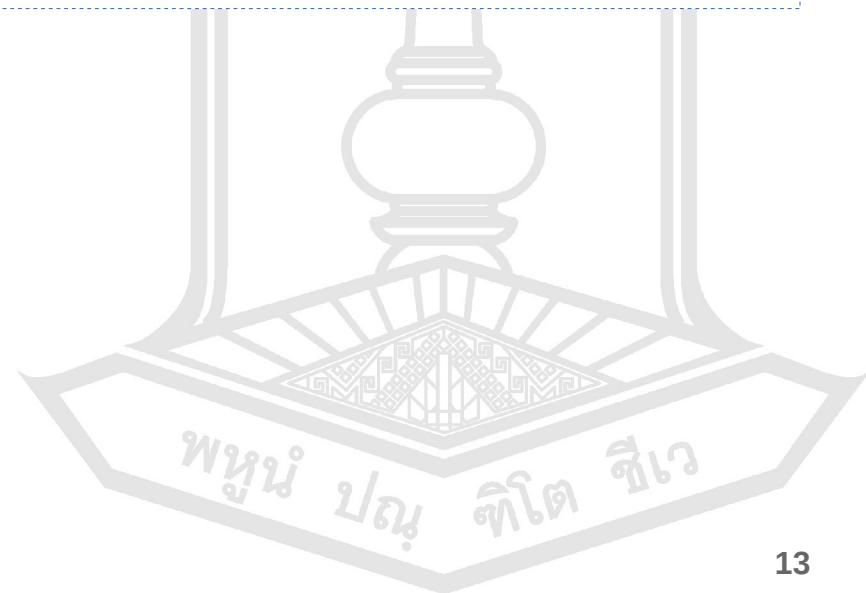
Answer

for loop statements

```python
fruits = ['banana', 'apple',  'mango']
for fruit in fruits:
    print ('Current fruit :', fruit)
```

```
('Current fruit :', 'banana')
('Current fruit :', 'apple')
('Current fruit :', 'mango')
```

for loop statements

```python
price = 0

for i in range(0,10):
    price = i + price
    print(price)
```

```
0
1
3
6
10
15
21
28
36
45
```

for loop statements

```
*
**
***
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*****
******
*******
********
*********
**********
```

Practice

for loop statements

```python
o = ''

for i in range(0,10):
    o = o + '*'
    print(o)
```

Answer

```
*
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*******
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*********
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```

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for loop statements

```
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****
***
**
*
```

Practice

for loop statements

```python
for i in range(10,0,-1):
    o = '*' * i
    print(o)
```

Answer

```
**********
*********
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*******
******
*****
****
***
**
*
```

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