

PYTHON

By ATHRESH KUMAR LABDE



29

Week 18
April
Tuesday (119-246)

Python [Folder No. 3]

Week.	13	14	15	16	17	18
Monday		7	14	21	28	
Tuesday	1	8	15	22	29	
Wednesday	2	9	16	23	30	
Thursday	3	10	17	24		
Friday	4	11	18	25		
Saturday	5	12	19	26		
Sunday	6	13	20	27		

Datatypes

① **None** → **Type**

>Description

Integer → Int → Ex 3, 300, 200.

Floating Pt → float → Ex 2.3, 5.6, 100.0.

String → Str → "hello", 'Sammy', "2000".

Lists → list → [10, "hello", 200.3]

Dictionaries → dict → {"mykey": "Value", "None": "False"}

Tuples → tup → (10, "hello", 200.3)

Sets → set {"a", "b"}

Booleans → bool → True or False

② ✘ Modulo or "Mod" [%] operator used to find the remainder & determine whether the number is even(or) odd.

Meetings

✓ Things To Do

✓ Important Calls

✓

	May				
Week	18	19	20	21	22
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

2014
April
Wednesday
(08-26) 30

⑥ Variable Assignment.

my-dogs = 2

my-dogs = ["Sammy", "Frankie"]

} ok in Python
to assign
one variable
two more than
One quantity.

Example

~~a = 5~~

Output
~~Output~~
5

a = 10

10

a + a

20 [It will take the recent
assigned Value].

type(a)

float [To find the Type or
Datatype of function]

~~my-income = 100~~

~~tax-rate = 10% -> 0.1~~

~~my-taxes = my-income * tax-rate~~

my-taxes

10.0

Meetings

Things To Do

Important Calls

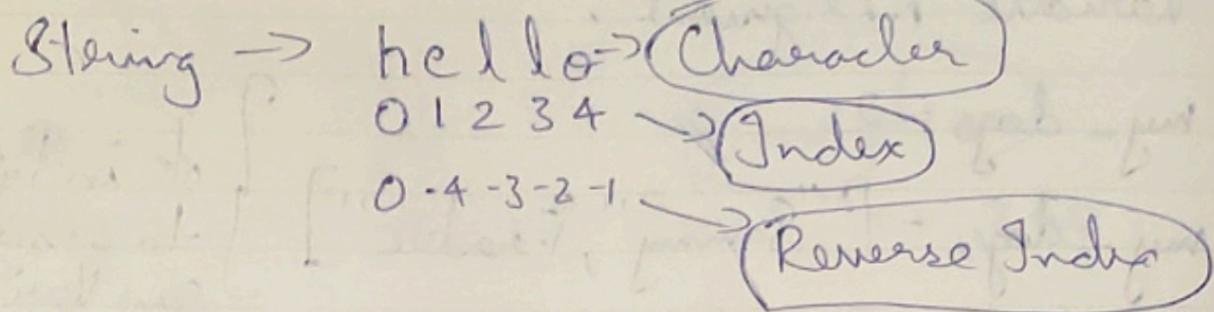
✓

□

□

□

⑦ String → Can be Using Single or double Quotes



To find the length of the String the type we have to use is len(" ")

Ex len('Hello')

Output → 5

⑧ Indexing & Slicing of String.

Ex Indexing [] → To grab something.

my string = "Hello World"

my string → 'Hello World'

my string [0] → 'H'

Ex mystring = 'abcdefghijklm'

mystring [2:] → 'cdefghijklm'

1

Week 18
May
Thursday (121-244)

Week	May				
	18	19	20	21	22
Monday	5	12	19	26	3
Tuesday	6	13	20	27	4
Wednesday	7	14	21	28	5
Thursday	8	15	22	29	6
Friday	2	9	16	23	7
Saturday	3	10	17	24	8
Sunday	4	11	18	25	9

May Day / Labour Day

(12)

String Properties & Method.

9.00 name = "Sam"

X

9.30 10.00 10.30 11.00 name [0] = 'P'

11.30 12.00 Ex name = "Sam"

12.30 13.00 13.30 name [1:] → 'am'

14.00 14.30 ~~name~~ 'P' + name → 'Pam'

15.00 15.30 Ex x = 'Hello World'

16.00 16.30 x + "it is beautiful outside!"

17.00 17.30 Output → 'Hello World it is beautiful outside!'

18.00 Evening Multiplication Concatenation

letter = 'z'

letter * 10 → 'zzzzzzzzzz'

Meetings

✓ Things To Do

✓ Important Calls

✓



Week	June	•	23	24	25	26
Monday	30	2	9	16	23	
Tuesday		3	10	17	24	
Wednesday		4	11	18	25	
Thursday		5	12	19	26	
Friday		6	13	20	27	
Saturday		7	14	21	28	
Sunday		1	8	15	22	29

Strings does not add it performs
(122-243) E

Concatenation for Example

Ex $2 + 3 \rightarrow 5$

Ex $\{ '2' + '3' \} \rightarrow '23'$

~~Properties~~ Properties

Ex → Uppercase

$x = 'Hello World'$

$x.upper()$

$\rightarrow 'Hello WORLD'$

Ex → lowercase

$x = 'Hello World!'$

$x.lower()$

$\rightarrow 'Hello world!'$

Evening

3

Week 18
May
Saturday (123-2Q)

	May					
Week	18	19	20	21	22	
Monday		5	12	19	26	
Tuesday		6	13	20	27	
Wednesday		7	14	21	28	
Thursday		8	15	22	29	
Friday		9	16	23	30	
Saturday		10	17	24	31	
Sunday		11	18	25		

Ex Split

$x = \text{"Hi this is a string"}$

x.split()

→ ['Hi', 'this', 'is', 'a', 'string']

⑯ String formatting for Printing

*.format() method

```
print ('This is a string { }', format('INSERTED'))
```

→ This is a string INSERTED.

(Ex) point ('The {{}}{}'.format('fox','brown','quick'))

→ The fox bounces quickly

(Ex) print('The {2} {1} {0}'.format('fox', 'brown', 'quick'))

→ The quick brown fox

	June				
Week	23	24	25	26	
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

2014
May
Monday

5

May Day (Bank Holiday) United Kingdom

(125-240)

Variable Assignment

Ex print ('The {q}{b}{f}') format (f='fox', b='brown', q='quick')
 → The quick brown fox.

Values → {"Value : Width.precision"}

Ex result = 100/777

result → 0.1287001287001287

print ("The result was {r}") format (r=result)

→ The result was 0.1287001287001287

f. string → Method

Ex name = "Jose"

print (f'Hello, his name is {name}')

→ Hello, his name is Jose

Ex name = "Sam"

age = 3

print (f'{name} is {age} years old.')

→ Sam is 3 years old.

Meetings

Things To Do

Important Calls

✓

□

□

□

6

Week 19
May
Tuesday (126-2029)

Week	May
	18 19 20 21
Monday	2 12 13 14
Tuesday	3 13 14 15
Wednesday	4 14 15 16
Thursday	5 15 16 17
Friday	6 16 17 18
Saturday	7 17 18 19
Sunday	8 18 19 20

(18)

List, supports indexing & Slicing []

Ex: my-list = ['STRING', 'LOGIC']

len(my-list)
→ 3.

Ex : mylist = ['one', 'two', 'three']

mylist[0]
→ 'one'

mylist[1:] → Indexing
→ ['two', 'three'].

Ex (Concatenation)

mylist → ['one', 'two', 'three']

another-list = ['four', 'five']

mylist + another-list

→ ['one', 'two', 'three', 'four', 'five']

Meetings

Things To Do

Important Calls

Week	June				
	23	24	25	26	
Monday	30	2	9	16	23
Tuesday		3	10	17	24
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

2014
May

(127-238) Wednesday

7

Types

Ex new-list.append('six')

new-list

→ ['One', 'Two', 'Three', 'Four', 'Five', 'Six']

Ex removing item(pop)

new-list.pop()

→ 'Six'

popped-item = new-list.pop()

Ex Sorting [sort()]

new-list = ['a', 'e', 'x', 'b', 'c']

new-list = [4, 1, 8, 3]

new

new-list.sort()

new-list

→ ['a', 'b', 'c', 'e', 'x']

8

Week 19
May
Thursday (128-2070)

Week	May				
	18	19	20	21	22
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

(22) Dictionaries

Objects retrieved by key name.

Unordered and cannot be sorted.

Lists : Objects retrieved by location.

Ordered Sequence can be indexed or sliced.

(Ex) prices - lookup = {'apple': 2.99, 'oranges': 1.99}

prices - lookup['apple']

→ 2.99

(Ex) d = {'k1': 123, 'k2': [0, 1, 2], 'k3': {'insideKey': 100}}

List

d['k2']
→ [0, 1, 2]

d['k1']
→ ~~123~~ 123

Week	June				
	23	24	25	26	
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

2014
May
(129-236) Friday

9

② Tuples with Python

Tuples are similar to list . The key difference is they are immutable → Cannot be changed.

* Once an element is inside a tuple, it can not be reassigned.

* Tuples use parenthesis (1, 2, 3)

Ex t = (1, 2, 3) → type(t) → tuple

my list [1, 2, 3] → list

t = ('one', 2)

t[0]
→ 'one'

t[-1]

→ 2

10

Week 19
May
Saturday (130-235)

Week	18	19	20	21	22	May
Monday	5	12	19	26		
Tuesday	6	13	20	27		
Wednesday	7	14	21	28		
Thursday	1	8	15	22	29	
Friday	2	9	16	23	30	
Saturday	3	10	17	24	31	
Sunday	4	11	18	25		

* Counting the objects in tuple

Ex: $t = ('a', 'a', 'b')$

$t.count('a')$

$\rightarrow 2$

$t.index('a')$ \rightarrow The very first time it occurs.

$\rightarrow 0$

$t.index('b')$

$\rightarrow 2$

20 Sets in PYTHON

11 SUNDAY Sets are unordered collections of unique elements.

① Empty Set

$myset = set()$

$myset$
 $\rightarrow set()$

Meetings

✓ Things To Do

✓ Important Calls

✓



Week	June				
	23	24	25	26	
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

C

2014
May
(122-233) Monday

12

8:00 (II) Adding '1' in set

8:30
9:00
9:30
10:00
10:30
11:00
11:30
12:00
12:30
13:00
13:30
14:00
14:30
15:00
15:30
16:00
16:30
17:00
17:30
18:00
Evening

myset.add(1)

myset
→ {1}

myset.add(2)

myset
{1, 2}

} {1, 2} is Continuous process of Adding:

30. Boleans (Bool) True (G) False

Should always be assigned in Uppercase letters.

(31) IO [Files] → Input & Output.

13

Week 20

May

Tuesday

④ Logic Operators

Week	May				
	18	19	20	21	22
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

Vesak Day (Singapore)

[and]

→ It needs the both sides to be true

Ex i.e. ' $h == h$ ' **[and]** $2 == 2$

→ True.

[Or]

needs only one to be true

Ex $100 == 1$ **[or]** $2 == 2$

→ True

Only either side of them should be true.

[NOT]

$1 == 1$

→ True

not $1 == 1$

→ False

$400 > 500$ **not**

→ False

not $400 > 5000$

→ True

To make any false statement true we need

Meetings

✓ Things To Do

✓ Important Calls

✓

NOT operator.

Week	23	24	25	26
Monday	39	2	9	96
Tuesday	3	89	97	28
Wednesday	4	11	98	25
Thursday	3	12	19	26
Friday	6	13	20	27
Saturday	7	14	21	28
Sunday	1	8	15	22

2014

May

(14-21) Wednesday

14

Buddha Jayanti (India, Nepal)

⑤ Python Statements

① Control flow

- 9.00 → if
- 9.30 → elif
- 10.00 → else

Syntax

```
if some-condition:  
    # execute some code
```

```
elif some-other-condition:  
    # do something different
```

```
else:  
    # do something else and fall
```

Ex: hungry = True

```
if hungry:  
    print('FEED ME!')
```

→ FEED ME!

15

Week 20

May

Thursday

10:35-23:04

Wkday	Mo	Tu	We	Th	Fr	Sa	Su
Monday	3	12	19	36			
Tuesday	67	13	20	32			
Wednesday	77	14	21	38			
Thursday	11	89	15	23	34		
Friday	27	90	16	29	40		
Saturday	37	160	17	24	41		
Sunday	45	111	18	28			

~~Ex~~

location = 'Bank'

if location == 'Shop':

print("Cars are Cars are cool!")

else:

print("I do not know")

→ I do not know.

~~Ex~~

Game = 'COD'

if Game == 'GTA 5':

print("Cars are cool")

elif Game == 'PUBG':

print("Violence")

elif Game == 'FIFA':

print("Cool")

else ~~else~~ else

print("I don't know much")

Ex name = 'Sammy'

if name == 'Frankie':
 print("Hello frankie!")

elif name == 'Sammy':
 print("Hello Sammy!")

else:

 print("What is your name?")

→ Hello Sammy.

② For Loops

Syntax → my_iterable = [1, 2, 3]

for item_name in my_iterable:
 print(item_name)

→ 1

2

3

Week	June	23	24	25	26
Monday	38	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	8	15	22	29	

2014
May

(138-236) Monday

19

Ex

mylist = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

for num in mylist:
print(num)

→ 1

2

3

4

5

6

7

8

9

10.

} output for loop.

Ex

To check Even numbers

for num in mylist:
Check for even
if num % 2 == 0:
 print(num)

→ 2

4

6

8

10

✓ Things To Do

✓ Important Calls

20

Week 21
May
Tuesday (140-225)

Week	18	19	20	21	May
Monday		5	12	19	26
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	
Friday	2	9	16	23	
Saturday	3	10	17	24	
Sunday	4	11	18	25	

Ex To get sum of even numbers.

list - sum = 0

for num in mylist:
list - sum = list - sum + num

print (list - sum)

→ 55

Ex For loop for strings

mystring = 'Hello World'

for letter in mystring:
print (letter)

H
e
l
l
o

Meetings	W	Things To Do	Important Calls
O		<input type="checkbox"/>	<input type="checkbox"/>
R		<input type="checkbox"/>	<input type="checkbox"/>
L		<input type="checkbox"/>	<input type="checkbox"/>
D			

Week	June				
	23	24	25	26	
Monday	30	2	9	16	23
Tuesday		3	10	17	24
Wednesday		4	11	18	25
Thursday		5	12	19	26
Friday		6	13	20	27
Saturday		7	14	21	28
Sunday	1	8	15	22	29

Tuple

(141-224) Wed

~~Ex~~ $tup = (1, 2, 3)$

for item in tup:
print(item)

→ 1

2

3

~~Ex~~ Tuple pairs #

→ Tuple Unpacking.

mylist = [(1, 2), (3, 4), (5, 6), (7, 8)]
len(mylist)
→ 4

for item in mylist:
print(item)

→ (1, 2)
(3, 4)
(5, 6)
(7, 8)

Week	May				
	28	29	30	31	1
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	
Sunday	4	11	18	25	

22

Week 21
May
Thursday (142-223)

③ While loops in Python

$$x = 0$$

while $x < 5$,

print f' The Current value of x is {x}'
 $x = x + 1$

→ The Current Value of x is 0

, , , ,

, , , , 2

, , , , 3

, , , , 4

We have to mention # $x = x + 1$ because to stop
the loop running 0 times.

break - Breaks out of the current enclosing loop

Continue - Goes to the top of the closest enclosing loop

pass - Does nothing at all.

Meetings

✓ Things To Do

✓ Important Calls

✓

Week	June	23	24	25	26
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

2014
May
Friday
(143-222) 23

Ex Pass-eon example

$$x = [1, 2, 3]$$

for item in x:
 pass

Print ('end of my script')

→ end of my script.

Ex break Example

mystring = 'Sammy'

for letter in mystring:
 if letter == 'a':
 break
 print(letter)

→ S

Ex Continue example

mystring = 'Sammy'

for letter in mystring:
 if letter == 'a':
 continue
 print(letter)

→ S

m
m
y

Meetings

✓ Things To Do

✓ Important Calls

-
-
-
-

	May				
Week	18	19	20	21	22
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	8	15	22	29	
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

24

Week 21
May
Saturday 0106220

A ① Useful Operators

① Range Syntax: Range(Start, Stop, step size):

mylist = [1, 2, 3]

for num in range(10):
 print(num)

→ 0

1

2

3

4

5

6

7

8

9

25 SUNDAY

African Freedom Day (Zambia)

② Index Count Enumerate

index - count = 0

for letter in 'abcde':

print('At index {} the letter is {}'.format(index, letter))

index - count += 1

Meetings	At index the letter is	Things To Do	Important Calls	
1,	'	□	□	✓
2,	'	□	□	□
3,	'	□	□	□
4,	'	□	□	□
5,	'	□	□	□

Week	June	23	24	25	26
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

2014
May

(146-219) Monday

26

Spring Bank Holiday (United Kingdom), Memorial Day (United States)

Ex word = 'abcde'
for item in enumerate(word):
 print(item)

→ {0, 'a')
→ {1, 'b')
→ {2, 'c')
→ {3, 'd')
→ {4, 'e')}

③ ZIPPING

mylist 1 = [1, 2, 3]
mylist 2 = ['a', 'b', 'c']
mylist 3 = [100, 200, 300]

for item in zip(mylist1, mylist2, mylist3):
 print(item)

→ (1, 'a', 100)
→ (2, 'b', 200)
→ (3, 'c', 300)

④ Mathematical Operators

Meetings mylist = [10, 20, 30, 40, 100]

min(mylist)

→ 10

✓ Important Calls

✓

	May				
Week	18	19	20	21	22
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

27

Week 22

May

Tuesday (147-218)

Leilat al-Meiraj* (Ascension of the Prophet) (UAE)

8.00 max(mylist)

8.30 → 100.

9.00
9.10
10.00 ⑤ Shuffle function

10.30 from random import shuffle

11.00 mylist = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

11.30
12.00 shuffle (mylist)

12.30
13.00 mylist

13.30
14.00 → [3, 9, 7, 8, 2, 1, 4, 5, 6, 10]

14.30
15.00

15.30 ⑥ To get a random integer

16.00 from random import randint

16.30 randint(0, 100)

17.00 Evening → 79

June						
Week	•	23	24	25	26	
Monday	30	2	9	16	23	
Tuesday		3	10	17	24	
Wednesday		4	11	18	25	
Thursday		5	12	19	26	
Friday		6	13	20	27	
Saturday		7	14	21	28	
Sunday	1	8	15	22	29	

2014
May
(148-217) Wednesday 28

⑦ Input function

8.00
9.00
9.30
10.00
10.30
11.00
11.30
12.00
12.30
13.00
13.30
14.00
14.30
15.00
15.30
16.00
16.30
17.00
17.30
Evening

input ('Enter a number here:')

[Enter a number here?] → In box.
→ '50'.

Ex/ Name = input ('What is your name?')

[What is your name?] → Response.

→ Rose

Name
→ 'Rose'

Input always displays the result in the string.

29

Week 22
May
Thursday (149-216)

Week	May				
	18	19	20	21	22
Monday		5	12	19	26
Tuesday		6	13	20	27
Wednesday		7	14	21	28
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

Ascension of Jesus (Botswana)

③ List Comprehensions in Python

8.00
8.30 my string = 'hello'

10.00
10.30 mylist = []

11.00
11.30 for letter in mystring:
12.00 mylist.append(letter)

13.00
13.30 mylist

14.00
14.30 → ['h', 'e', 'l', 'l', 'o']

~~Second Method~~ Comprehension

15.00
15.30 mylist = [letter for letter in mystring].

16.00
16.30 mystring mylist

17.00
17.30 → ['h', 'e', 'l', 'l', 'o']

Meetings

✓ Things To Do

✓ Important Calls

✓



Week	June	23	24	25	26
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

2014
May
Friday 30
(150-215)

8.00 Ex $\text{mylist} = [x \text{ for } x \text{ in 'word'}]$
 8.30
 9.00
 9.30
 10.00
 10.30
 11.00
 11.30
 12.00
 12.30
 13.00
 13.30
 14.00
 14.30
 15.00
 15.30
 16.00
 16.30
 17.00
 17.30
 18.00
 Evening

mylist
 $\rightarrow [w, o, r, d]$

Ex $\text{mylist} = [num \text{ for } num \text{ in range}(6, 11)]$
 mylist
 $\rightarrow [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]$

Ex Square of a number
 mylist = $[num^{**2} \text{ for } num \text{ in range}(0, 11)]$
 mylist
 $\rightarrow [0, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100]$

To grab even numbers
 mylist = $[x \text{ for } x \text{ in range}(0, 11) \text{ if } x \% 2 == 0]$
 mylist
 $\rightarrow [0, 2, 4, 6, 8, 10]$

Meetings

✓ Things To Do

✓ Important Calls



✓



□



□



□

31

Week 22

May

Saturday 08:00

Week:	18	19	20	21	22
Monday	5	12	19	26	
Tuesday	6	13	20	27	
Wednesday	7	14	21	28	
Thursday	1	8	15	22	29
Friday	2	9	16	23	30
Saturday	3	10	17	24	31
Sunday	4	11	18	25	

Ex Temperature Conversion using Comprehension

Celcius = [0, 10, 20, 34.5]

Fahrenheit = [(9/5)*temp + 32] for temp in Celcius

Fahrenheit

→ [32.0, 50.0, 68.0, 94.1]

⑥ Methods & Functions

① Methods and the Python Documentation

mylist = [1, 2, 3]

mylist.append(4)

mylist

→ [1, 2, 3, 4]

Meetings

✓ Things To Do

✓ Important Calls

✓



1

Week 22
June
Sunday (152-213)

Madaraka Day (Kenya)

8.00 ② function In PYTHON

8.30
9.00
9.30
10.00
10.30

Syntax

11.00

11.30

12.00

12.30

13.00

13.30

14.00

14.30

15.00

15.30

16.00

16.30

17.00

17.30

18.00

Evening

```
def name_of_function():
    """
    Docstring explains function.
    """
    print("Hello " + name)
→ name_of_function("Jose")
→ Hello Jose
```

Ex/ def add_function(num1, num2):
 return num1 + num2
→ result = add_function(1, 2)
→ print(result)
→ 3.

Meetings

✓ Things To Do

✓ Important Calls



We
Mo
Tu
We
Th
Frid
Sat
Sun

Week	July				
	27	28	29	30	31
Monday	7	11	21		28
Tuesday	8	15	22	29	
Wednesday	9	16	23		
Thursday	10	17	24		31
Friday	11	18	25		
Saturday	12	19	26		
Sunday	13	20	27		

2014
June
17-21 Monday

2

~~Ex/~~ def name_function():
 print('Hello')

name_function()
→ Hello

12.30 13.00 13.30 14.00 14.30 15.00 15.30 16.00
~~Ed~~ def say_hello(name):
 print('Hello ' + name)
say_hello('Jose')
→ Hello Jose

3d) Point does not return result but to return result use result.

```
def add(n1, n2):  
    return n1 + n2
```

result = add(20, 30)

~~result~~ result
→ 50.

3

Week 23
June
Tuesday (054-2011)

Week	June				
	23	24	25	26	
Monday	30	2	3	16	25
Tuesday		3	19	17	28
Wednesday		4	11	18	23
Thursday		5	12	19	26
Friday		6	13	26	27
Saturday		7	14	21	28
Sunday	1	8	15	22	29

Martyrs' Day (Uganda)

8.00 Deedbank # find out if the word "dog" is
in a string?
8.30
9.00

9.30 10.00 def dog-check(mystring):
10.30 if "dog" in mystring:
11.00 return True
11.30

12.00 else:
12.30 return False
13.00

13.30 14.00 dog-check('My dog ran away')
14.30
15.00 → True -

15.30 16.00 Method 2 By Boolean Method.

16.30 17.00 def dog-check(mystring):
17.30 return 'dog' in mystring()
18.00
Evening → True -

Meetings:

✓ Things To Do

✓ Important Calls

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	July				
Week	27	28	29	30	31
Monday	7	14	21	28	
Tuesday	1	8	15	22	29
Wednesday	2	9	16	23	30
Thursday	3	10	17	24	31
Friday	4	11	18	25	
Saturday	5	12	19	26	
Sunday	6	13	20	27	

2014
June

055-2009 Wednesday

4

Pig Latin

Secret Language

* If word starts with a vowel, add 'ay' to end
 Ex apple → appley

* If word does not start with a vowel, put first letter at the end, then add 'ay'
 Ex word → ordoay.

def pig-latin (word):

first-letter = word[0]

Check if vowel.

: if first-letter in 'aeiou':

pig-word = word + 'ay'

Else:

pig-word = word[1:] + first-letter + 'ay'.

return pig-word

Meetings

Things To Do

✓ Important Calls

✓

5

WEEK 20
June
Thursday (156-209)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	6	13	20	27	3	10	17
	7	14	21	28	4	11	18
	8	15	22	29	5	12	19

⑪ Args and Kwargs in Python

↓
Arguments (*args)

↳ KeyWords & Arguments (**kwargs)

Ex/ def myfunc(a, b, c=0, d=0, e=0):

Return 5% of the sum of a, b, c, d & e.
return sum((a, b, c, d, e)) * 0.05

myfunc(40, 60, 100, 100)

→ 15.0

* We have to assign the Variables to sum if we use (*args) we can use as many as variables. For example.

	July				
Week	27	28	29	30	31
Monday	7	14	21	28	
Tuesday	8	15	22	29	
Wednesday	9	16	23	30	
Thursday	10	17	24	31	
Friday	11	18	25		
Saturday	12	19	26		
Sunday	13	20	27		

2014
June
(157-209) Friday

6

8.00 Ex def myfunc (*args):

return sum(args) * 0.05

myfunc(40, 60, 100)

→ 10.0

Kwargs

def myfunc (**kwargs):

print(kwargs)

if 'fruit' in kwargs:

print('My fruit of choice is {}.'.format(kwargs['fruit']))

else:

print('I did not find any fruit here')

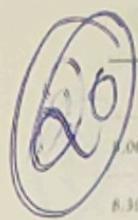
myfunc(fruit = 'apple')

→ My fruit of choice is apple.

	June				
Week	•	23	24	25	26
Monday	30	2	9	16	23
Tuesday	3	10	17	24	
Wednesday	4	11	18	25	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	
Sunday	1	8	15	22	29

7

Week 23
June
Saturday (158-207)



Lambda Expressions, Map and filter

Map

~~Eff~~ def square(num):
 return num ** 2

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

for item in map (square, my_nums):
 print (item)

→ 1
4
9
16
25

~~Eff~~ def splicer (mystring):
 if len(mystring) % 2 == 0:
 return 'EVEN'
 else:

return mystring [0]

Meetings

Important Calls

name = ['Andy', 'Eve', 'Sally']

Week	July				
	27	28	29	30	31
Monday	1	8	15	22	29
Tuesday	2	9	16	23	30
Wednesday	3	10	17	24	31
Thursday	4	11	18	25	
Friday	5	12	19	26	
Saturday	6	13	20	27	
Sunday					

2014

June

(160-205) Monday

9

list(map(splicer, names))

→ ['EVEN', 'E', 'S'] .

Filter

def check_even(num):

return num % 2 == 0

mynums = [1, 2, 3, 4, 5, 6]

list(filter(check_even, mynums))
(or)

for n in filter(check_even, mynums):
print(n)

→ 2

4

6.

10

Week 24
June
Tuesday (06-2019)

Week	23	24	25	26
Monday	20	2	9	16
Tuesday	3	3	10	17
Wednesday	4	4	11	18
Thursday	5	5	12	19
Friday	6	6	13	20
Saturday	7	7	14	21
Sunday	8	8	15	22

Lambda Expression

square = lambda num : num ** 2

square(5)

→ 25.

Ex // list(map(lambda num: num ** 2, mynums))
→ [1, 4, 9, 16, 25, 36].

② Nested Statements and Scope:

