

# Unit 8 - Week 6

## Course outline

How does an NPTEL online course work?

Week 0 Assignment 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

● Lecture 26: Introduction to Python Programming- I

● Lecture 27: Introduction to Python Programming- II

● Lecture 28: Introduction to Raspberry Pi- I

● Lecture 29: Introduction to Raspberry Pi- II

● Lecture 30: Implementation of IoT with Raspberry Pi- I

● Lecture material of Week 6

Quiz : Week 6 Assignment 6

Week 6 Feedback Form

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

Books

Download Videos

Detail Solution

Live Interactive Session

## Week 6 Assignment 6

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

Due on 2020-03-11, 23:59 IST.

1) d = {1:'item',k:'2'} data type in python represents:

1 point

- a. Dictionary
- b. Array
- c. String
- d. List

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

2) The approximate output of the following code snippet is:

1 point

```
from math import pi
print(pi)
```

- a. 3.14
- b. 2.73
- c. pi
- d. None of these

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

3) Select the output of the following code snippet:

0 points

```
var_1=20;
def funct(var_2, var_3):
    var_4=var_2+var_3
    print(var_1)
funct(4,5)
print(var_4)
```

- a. 20
- 9
- b. 9
- 9
- c. Error
- d. None of these

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
c.

4) Which of the following functions can be used to generate random integers?

1 point

- a. random.randint()
- b. generateInt()
- c. random.int()
- d. All of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

5) Which exception will be raised for the following code snippet?

1 point

```
x=5/0
print x
```

- a. ZeroDivisionError
- b. ValueError
- c. NameError
- d. IOError

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

6) What are the basic steps for a file operation in Python?

1 point

- a. Open, read/write, close
- b. Open, close
- c. Open, set pointer, close
- d. Locate, open, read/write, close

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

7) Select the mode for writing in a file without overwriting the previous contents:

1 point

- a. r
- b. w
- c. a
- d. r+

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
c.

8) Python supports image related operations through which of the following libraries?

1 point

- a. Scipy.
- b. PIL.
- c. Numpy.
- d. Matplotlib

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.

9) What is the output of the following Python code snippet?

0 points

```
While True:
    with open('data.txt', 'w') as file:
        file.write('abc')
        file.close()
```

- a. Overwrites data.txt with “write to file” in loop
- b. Appends data.txt with “write to file” in loop
- c. Throws an error
- d. File opened only for reading

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

10) In Python, image.size() returns the width and height of the image in the metric:

1 point

- a. Percentage
- b. Pixels
- c. Centimeter
- d. none

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.

11) In Python image read/write, the minimum number of mode conversions for modes other than ‘L’ and ‘RGB’ is?

1 point

- a. 1
- b. 2
- c. 3
- d. 4

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.

12) A device has the following code snippet running:

1 point

```
sock.listen(1)
connection, client_address = sock.accept()
data = connection.recv(1024)
print(data)
sock.close()
```

Choose the correct option.

- a. The device is acting as a server
- b. The device is acting as a client
- c. The device is an intermediate node
- d. All of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
a.

13) PiCam uses a:

1 point

- a. USB port for connection
- b. Specific CSI port for connection
- c. Both a and b
- d. None of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.

14) Which of the following is not true for Raspberry pi?

1 point

- a. It is like a mini computer
- b. It is a microcontroller
- c. Low cost
- d. It can be used without a monitor

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.

15) Which of the following is false for an actuator?

1 point

- a. It converts energy into motion.
- b. It is same as a sensor.
- c. It provides controlled motion to other objects
- d. None of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☐ d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.