

exam

Course outline

How does an NPTEL online course work?

Week 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

• Assignment 6 Solution

Week 7

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## Week 6 : Assignment 6

The due date for submitting this assignment has passed.

Due on 2022-09-07, 23:59 IST.

Assignment submitted on 2022-08-28, 21:30 IST

- 1) What is the value that is assigned to the variable f in the given piece of python code?
- ```
i, f, str=50, 50.68, "Welcome to python"
```
- a. 50
  - b. 50.68
  - c. Welcome to python
  - d. All of these

1 point

- ☐ a  
☒ b  
☐ c  
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

- 2) What is the output of the following piece of python code?

```
x='17'  
y='23'  
z=x+y  
print(z)
```

1 point

- a. 40
- b. 6
- c. 1723
- d. 30

- ☐ a  
☐ b  
☒ c  
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

3) Fill in the blanks. Raspbian is a/n \_\_\_\_\_

1 point

- a. Microcomputer
- b. Minicomputer
- c. Operating system
- d. Assembler

- ☐ a
- ☐ b
- ☒ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c

4) What is the output of the following piece of Python code?

1 point

- ```
t1 = 'Welcome to python coding'
print(t1[8:14])
```
- a. to pyth
  - b. SyntaxError: invalid syntax
  - c. e to pyt
  - d. to pyt

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

5) Fill in the blanks. Raspberry Pi 3 Model B has a GPU support of \_\_\_\_\_

1 point

- a. 400 MHz video core IV
- b. 250 MHz video core IV
- c. Quad cortex A53 @ 1.2GHz
- d. ARM 11 @ 1 GHz

- ☒ a
- ☐ b
- ☐ c

5) Fill in the blanks. Raspberry Pi 3 Model B has a GPU support of \_\_\_\_\_ 1 point

- a. 400 MHz video core IV
- b. 250 MHz video core IV
- c. Quad cortex A53 @1.2GHz
- d. ARM 11 @ 1 GHz

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
a

6) Which of the following represents the command used for rebooting Raspberry Pi? 1 point

- a. sudo reboot
- b. sudo apt-get rebooting
- c. pip install rebooting
- d. All of these

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
a

7) It is not possible to return multiple values from a function in Python. 1 point

- a. True
- b. False

- ☐ a
- ☒ b

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
b

8) 1 point

What is the data type of the variable `ls` in the following piece of Python code?  
`ls= {1: "item", "key": "21", "year": 2022}`

- a. dictionary
- b. list
- c. tuple
- d. All of these

- ☒ a
- ☐ b
- ☐ c
- ☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

9) 1 point

A function in Python may or may not return a value.

- a. True
- b. False

- ☒ a
- ☐ b

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

10) 1 point

What are the basic modes to open a file in python?

- a. Read mode (r) and write mode (w)
- b. Append mode (a)
- c. Both read and write mode (r+)
- d. All of these

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

11) What are the socket types that exist in Python based socket programming? 1 point

- a. AF\_DG and SOCK\_SM
- b. AF\_UNIX and AF\_INET
- c. SOCK\_UX and SOCK\_IT
- d. SOCK\_DGRAM and SOCK\_STREAM

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.  
Score: 1

Accepted Answers:

d

12) Does Python support exception handling? 1 point

- a. Yes
- b. No

- ☒ a
- ☐ b

Yes, the answer is correct.  
Score: 1

Accepted Answers:

a

13) Which of the following must be used to terminate a loop and move to the next code after the loop? 1 point

- a. list
- b. try
- c. continue
- d. break

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.  
Score: 1

Accepted Answers:

d

d. break

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
d

14) Select the option that does not represent a keyword in Python language? 1 point

- a. while
- b. if
- c. try
- d. integer

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
d

15) Raspberry Pi does not support any other language other than Python? 1 point

- a. True
- b. False

- ☐ a
- ☒ b

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
b