

## Course outline

How does an NPTEL online course work?

### Week 0

### Week 1

### Week 2

- ☐ Introduction to Anaconda
- ☐ Installation of Anaconda
- ☐ Introduction to Spyder IDE
- ☐ Printing statements in Python
- ☐ Understanding Variables in Python
- ☐ Executing a sequence of instructions in the Console
- ☐ Writing your First Program
- ☐ Taking inputs from the user
- ☐ Discount Calculation
- ☐ Motivation to if condition
- ☐ A reminder on how to deal with numbers
- ☐ Understanding if condition's working
- ☐ Realizing the importance of syntax and indentation
- ☐ Introductions to loops
- ☐ Loops: Sum of numbers
- ☐ Loops: Sum of numbers (continued)
- ☐ Loops: Multiplication Tables
- ☐ Introduction to While Loop
- ☐ Week 2 Feedback Form: The Joy of Computing using Python

### Quiz: Week 2 : Assignment 1

#### Week 2: Programming Assignment 1

#### Week 2: Programming Assignment 2

#### Week 2: Programming Assignment 3

### Week 3

### Week 4

### Week 5

### Week 6

### Week 7

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## Week 2 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

Assignment submitted on 2023-02-05, 11:34 IST

1) What are the applications of Python?

1 point

- ☐ Image processing and graphic design applications
- ☐ Enterprise and business applications development
- ☐ Operating systems
- ☒ All of the above
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

2) Which of the following is not the correct variable name

1 point

- ☐ Abc
- ☐ Abd23
- ☒ 32asd
- ☐ Ab\_cd\_23

Yes, the answer is correct.

Score: 1

Accepted Answers:

32asd

3) Write the output of the following code.

1 point

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

print(L[::-1])

- ☐ [1,2,3,4,5,6,7,8,9]
- ☐ [1,2,3,4,5,9,8,7,6]
- ☒ [9,8,7,6,5,4,3,2,1]
- ☐ Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

4) Predict the output of the following code:

1 point

L = [[1,2,3],[0,4,5],[0,0,6]]

```
1 for i in range(3):
2     for j in range(2,i-1,-1):
3         print(L[i][j], end = " ")
4
```

- ☐ 3,2,1,5,4,6
- ☒ 3 2 1 5 4 6
- ☐ 0,0,0,0,0,0
- ☐ 0 0 0 0 0 0

Yes, the answer is correct.

Score: 1

Accepted Answers:

3 2 1 5 4 6

5) Find all the error(s) in the following code:

1 point

```
n = 10
l = []
for i in range(10,n+10):
    l.append(i**i)

for i in range(10,0,-1):
    print(l[i])
```

- ☒ Index out of range
- ☒ Syntax error
- ☐ Variable not defined
- ☐ 'int' object does not support item assignment

Yes, the answer is correct.

Score: 1

Accepted Answers:

Accepted Answers:  
Index out of range  
Syntax error

6) What is the output of the following code:

1 point

```
1 def add_items(x,y):
2     x+= [1,2]
3     y+= (3,4)
4     l = [0]
5     t = (5,)
6     add_items(l, t)
7     print(l,end=" ")
8     print(t)
```

- ☐ [0,1,2] (5,3,4)  
☒ [0,1,2] (5,)  
☐ [0] (5,3,4)  
☐ [0] (5,)

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
[0,1,2] (5,)

7) What is the correct syntax for defining a function in Python?

0 points

- ☒ def function name():  
☐ function function\_name():  
☐ function\_name():  
☐ def function\_name:

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
def function\_name:

8) What is the purpose of the continue statement in a for loop?

1 point

- ☐ To skip the rest of the current iteration and move on to the next one  
☐ To terminate the loop and exit the loop block  
☐ To return to the top of the loop and start a new iteration  
☒ To skip the current iteration and move on to the next one, but only if a certain condition is met

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
To skip the rest of the current iteration and move on to the next one

9) How do you check if a number is even in Python?

1 point

- ☒ if number % 2 == 0  
☐ if number.is\_even()  
☐ if number % 2 is 0  
☐ if number.even()

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
if number % 2 == 0

10) What should be the value of \_ to print all numbers from 0-10?

1 point

```
for i in range( _ ):
    print(i)
```

- ☒ 11  
☐ 9  
☐ 10  
☐ None of the above

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
11

