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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy of Computing using Python (course)



Course outline

How does an NPTEL online course work?
()

Week 0 ()

Week 1 ()

Week 2 ()

● Introduction to Anaconda
(unit?
unit=37&lesson=38)

● Installation of Anaconda
(unit?
unit=37&lesson=39)

● Introduction to Spyder IDE
(unit?
unit=37&lesson=40)

● Printing statements in Python (unit?
unit=37&lesson=41)

● Understanding Variables in Python (unit?)

Week 2 : Assignment 1

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-02-08, 19:45 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]

unit=37&lesson=42)

● Executing a sequence of instructions in the Console (unit? unit=37&lesson=43)

● Writing your First Program (unit? unit=37&lesson=44)

● Taking inputs from the user (unit? unit=37&lesson=45)

● Discount Calculation (unit? unit=37&lesson=46)

● Motivation to if condition (unit? unit=37&lesson=47)

● A reminder on how to deal with numbers (unit? unit=37&lesson=48)

● Understanding if condition's working (unit? unit=37&lesson=49)

● Realizing the importance of syntax and indentation (unit? unit=37&lesson=50)

● Introductions to loops (unit? unit=37&lesson=51)

● Loops: Sum of numbers (unit? unit=37&lesson=52)

● Loops: Sum of numbers (continued)

- ☐ [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:

Index out of range

Syntax error

6) What is the output of the following code:

1 point

(unit?
unit=37&lesson
=53)

Loops:
Multiplication
Tables (unit?
unit=37&lesson
=54)

Introduction to
While Loop
(unit?
unit=37&lesson
=55)

Week 2
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=37&lesson
=56)

**Quiz: Week 2 :
Assignment 1
(assessment?
name=295)**

Week 2:
Programming
Assignment 1
(/noc23_cs20/pr
ogassignment?
name=292)

Week 2:
Programming
Assignment 2
(/noc23_cs20/pr
ogassignment?
name=293)

Week 2:
Programming
Assignment 3
(/noc23_cs20/pr
ogassignment?
name=294)

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

```
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

Week 10 ()

Week 11 ()

Week 12 ()

**Text
Transcripts ()**

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()**

**Problem
Solving
Session ()**

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

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

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