



(<https://swayam.gov.in>)



([https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL))

kashyapgarima700@gmail.com ▾

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 ()

Week 3 ()

● Lists Part 1 : Introduction (unit? unit=57&lesson=58)

● Lists Part 2 : Manipulation (unit? unit=57&lesson=59)

● Lists Part 3 : Operations (unit? unit=57&lesson=60)

● Lists Part 4 : Slicing (unit? unit=57&lesson=61)

● Loops and Conditionals :

# Week 3 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-15, 23:59 IST.

Assignment submitted on 2023-02-08, 19:27 IST

1) \_\_\_\_\_ is the method to insert an item into a specified position in a list.

1 point

- ☐ Push
- ☐ Write
- ☒ Insert
- ☐ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Insert*

2) Which method returns the number of occurrences of an element in a list.

1 point

- ☐ Number of
- ☐ Total
- ☒ Count
- ☐ Length

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Count*

3) The function `random.randint(1,100)` in python generates.

1 point

- ☒ A random integer between 1 to 100 with 1 and 100 both inclusive
- ☐ A random integer between 1 to 100 with 1 and 100 both exclusive
- ☐ A random integer between 1 to 100 with only 100 inclusive
- ☐ None of the above

Fizzbuzz 01  
(unit?  
unit=57&lesson  
=62)

Loops and  
Conditionals :  
Fizzbuzz 02  
(unit?  
unit=57&lesson  
=63)

Crowd  
Computing -  
Just estimate  
01 (unit?  
unit=57&lesson  
=64)

Crowd  
Computing -  
Just estimate  
02 (unit?  
unit=57&lesson  
=65)

Crowd  
Computing -  
Just estimate  
03 (unit?  
unit=57&lesson  
=66)

Crowd  
Computing -  
Just estimate  
04 (unit?  
unit=57&lesson  
=67)

Crowd  
Computing -  
Just estimate  
05 (unit?  
unit=57&lesson  
=68)

Crowd  
Computing -  
Just estimate  
06 (unit?  
unit=57&lesson  
=69)

Permutations -  
Jumbled Words  
01 (unit?  
unit=57&lesson  
=70)

Permutations -  
Jumbled Words  
02 (unit?  
unit=57&lesson  
=71)

Yes, the answer is correct.

Score: 1

Accepted Answers:

*A random integer between 1 to 100 with 1 and 100 both inclusive*

4) The method open("file1.txt", r+) opens the file file1.txt in \_\_\_\_\_.

**1 point**

- ☐ Read only mode
- ☐ Write only mode
- ☒ Read Write mode
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Read Write mode*

5) Consider the list L = [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]. What will be the output of the statement L [3:6]?

**1 point**

- ☒ [2, 3, 5]
- ☐ [0, 1, 1]
- ☐ [1, 2, 3]
- ☐ none

Yes, the answer is correct.

Score: 1

Accepted Answers:

*[2, 3, 5]*

6) What is the output of this code?

**1 point**

```
1 a,b=1,0
2 a=a^b
3 b=a^b
4 a=a^b
5 print(a)
```

- ☒ 0
- ☐ 1
- ☐ 2
- ☐ This code will raise a runtime error

Yes, the answer is correct.

Score: 1

Accepted Answers:

*0*

7) What is the output of the following code?

```
1 def foo(l):
2     a = l[0]
3     for i in l:
4         if i < a:
5             a = i
6     return a
7
8 print(foo([2, 3, 5, 1, 7, 6]))
```

● Permutations - Jumbled Words 03 (unit? unit=57&lesson=72)

● Theory of Evolution 01 (unit? unit=57&lesson=73)

● Theory of Evolution 02 (unit? unit=57&lesson=74)

● Theory of Evolution 03 (unit? unit=57&lesson=75)

● Theory of Evolution 04 (unit? unit=57&lesson=76)

● Week 3 Feedback Form: The Joy of Computing using Python (unit? unit=57&lesson=77)

● Quiz: Week 3 : Assignment 1 (assessment? name=296)

● Week 3: Programming Assignment 1 (/noc23\_cs20/pr ogassignment? name=297)

● Week 3: Programming Assignment 2 (/noc23\_cs20/pr ogassignment? name=298)

● Week 3: Programming Assignment 3 (/noc23\_cs20/pr ogassignment? name=299)

week 4 ()

1

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 1

1 point

8) What is the output of the following code?

1 point

```
1 def bar(string):
2     left = 0
3     right = len(string) - 1
4     while(left < right):
5         if(string[left] != string[right]):
6             return False
7         left += 1
8         right -= 1
9     return True
10
11 print(bar("telugu"))
12 print(bar("malayalam"))
13
```

- ☒ False True  
☐ True False  
☐ True True  
☐ False False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False True

9) Explain what the output will be when the code given below is executed.

1 point

```
def func(list1):
    while (len(list1) > 2):
        k=list1[0]
        for i in list1:
            if k<i:
                k=i
        list1.remove(k)

        j=list1[0]
        for i in list1:
            if j>i:
                j=i
        list1.remove(j)
    return list1

list2=func([1,4,3,6,5,3,7,8,9,4])
#sum is a function which returns the sum of all of the values of all
the elements of a list
print(sum(list2)/len(list2))
```

- ☐ The program throws an error

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Text  
Transcripts ()

Download  
Videos ()

Books ()

Live Session  
()

Problem  
Solving  
Session ()

- ☐ 5
- ☐ 5.5
- ☒ 4.5

Yes, the answer is correct.

Score: 1

Accepted Answers:

4.5

10) Which among the following statements is True with respect to the code given below?

**1 point**

```
1 count = 0
2 for i in range(10):
3     for j in range(5):
4         count += i * j
5 print(count)
```

- ☐ count=50
- ☐ The following code throws up an error.
- ☐ count=550
- ☒ count=450

Yes, the answer is correct.

Score: 1

Accepted Answers:

count=450