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



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Thank you for taking the Week 3: (https://examform.nptel.ac.in/2024_10/exam_form/dashbarssignment 3.

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Course outline

About NPTEL ()

How does an **NPTEL** online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

- OLists Part 1: Introduction (unit? unit=57&lesson =58)
- OLists Part 2: Manipulation (unit? unit=57&lesson =59)
- OLists Part 3: Operations (unit?

Week 3: Assignment 3

Your last recorded submission was on 2024-08-13, 22:18 IST
Due date: 2024-08-14, 23:59 IST.

1) Which of the following is/are **true** statement(s)?

1 point

- Lists are used to store multiple values.
- One can access element in list by using non-numeric indices.
- Iterating over lists is possible in Python.
- We need to specify required size of list while creating a new list variable.
- 2) In the below code -

```
n=
for i in range(n):
    11 = []
    p = 0
    for j in range(i):
        11.append(j)
    for k in l1:
        p+=1
    a.append(p)
k=0
for l in a:
    k+=1
print(k)
```

For what value of **n** does the program print **21**?

```
unit=57&lesson
                                  7
Assessment submitted.
                                                                                                                      1 point
      OLists Part 4:
                                 3) From the previous question, for what values of n is the number 7 appended to list a.
                                                                                                                      1 point
        Slicing (unit?
        unit=57&lesson
                                   \Box7
        =61)
                                   \bigcap 6
      Loops and
                                   8
        Conditionals:
                                   9
        Fizzbuzz 01
        (unit?
        unit=57&lesson
                                 4) What does the following code perform?
                                                                                                                      1 point
        =62)
      Loops and
                                def mystery(container):
        Conditionals:
                                       result = []
        Fizzbuzz 02
        (unit?
                                       for i in range(len(container)):
        unit=57&lesson
                                              if i % 2 == 0:
        =63)
                                                     result.append(container[i] * 2)
      Crowd
        Computing -
                                              else:
        Just estimate
        01 (unit?
                                                     result.append(container[i] + 3)
        unit=57&lesson
                                       return result
        =64)
      Crowd
                                   Olt converts any input list into a new list which is filled with some alternative even and odd
        Computing -
                                   numbers.
        Just estimate
        02 (unit?
                                   lt converts any input list into a new list such that at even indices, the value is a multiple of an
        unit=57&lesson
                                   even number and at odd indices, the value is either odd or even number.
        =65)
                                   O It converts any input list into a new list such that at even indices, the value is multiple of 2 and
      Crowd
                                   at odd indices, the value is multiple of 3.
        Computing -
                                   It converts any input list into a new list, which follows no pattern.
        Just estimate
        03 (unit?
                                 5) From the previous question, if the option -
                                                                                                                      1 point
        unit=57&lesson
                                It converts any input list into a new list which is filled with some alternative even and odd
        =66)
                                numbers.
      Crowd
                                is incorrect, Can you make changes to code such that this option is true?
        Computing -
        Just estimate
                                   O No, it is not possible to make such changes.
        04 (unit?
                                   O No, the option is already correct.
        unit=57&lesson
        =67)
                                   Yes, we can make changes.
      Crowd
                                 6) If file.txt exists, Does the code successfully run?
                                                                                                                      1 point
        Computing -
        Just estimate
                                  with open("file.txt", "w") as f:
        05 (unit?
        unit=57&lesson
                                        data = f.read()
        =68)
                                        print(data)
      Crowd
        Computing -
                                   O Yes
        Just estimate
        06 (unit?
                                    ON O
        unit=57&lesson
        =69)
                                 7) Which of the following are examples of Social Computing?
                                                                                                                      1 point
      Permutations -
                                   StackOverflow
        Jumbled Words
                                   ✓ Wikipedia
        01 (unit?
        unit=57&lesson
                                   Quora
        =70)
```

- Assessment submitted.
 Jumbled Words

 X 02 (unit?
 unit=57&lesson
 =71)
 - 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)
 - Quiz: Week 3: Assignment 3 (assessment? name=453)
 - Week 3
 Feedback
 Form: The Joy
 of Computing
 using Python
 (unit?
 unit=57&lesson
 =77)

56

grading.

Submit Answers

- Week 3:
 Programming
 Assignment 1
 (/noc24_cs113/progassignment
 ?name=456)
- Week 3:
 Programming
 Assignment 2
 (/noc24_cs113/progassignment
 ?name=457)
- Week 3: Programming Assignment 3 (/noc24_cs113/

□ None 8) What does the following code print for n = 3? 1 point k = 0a = []b = 0while (n != 0): k = k + (n % 10)a.append(n % 10) n = n//10a.sort() for i in a: b = b + iif(b == k):print("WE KNOW THE WISDOM OF SERIES") else: print("WE ARE YET TO KNOW MANY THINGS") • WE KNOW THE WISDOM OF SERIES O WE ARE YET TO KNOW MANY THINGS 9) From the previous question, is the variable **n** or **a.sort()** responsible for printing of either **1 point** of the two possible sentences? ✓ No, it is not dependent on variable n, the code will never print "WE ARE YET TO KNOW MANY THINGS". Yes on both, the code may print both sentences. ✓ No, it is not dependent on a.sort(), the code will never print "WE ARE YET TO KNOW MANY THINGS". 10) What does the code in question 8, calculate?

Can you say what the values of k and b are if n = $10294343763482 \times 10^{2309}$.

You may submit any number of times before the due date. The final submission will be considered for

1 point

If values of k and b are different, enter 0, else enter value of k

progassignment
Assessment Subgritted.

Week 4 ()

Text
Transcripts ()

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Problem
Solving
Session - July
2024 ()