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

Announcements (announcements) **About the Course (preview)** Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

Unit 4 - Week 3

Course outline

How does an NPTEL online course work?

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 : 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)
- Permutations - Jumbled Words 03 (unit?

Assignment 3

Assignment not submitted

Due date: 2020-10-07, 23:59 IST.

NOTE: Python 3.7 has been used for this Assignment

1) What is the expected output for the following code? ***1 point***

```
cart=['coffee','sugar','cheese','butter']
for item in cart:
        if item=='sugar':
                print('jaggery')
        else:
                print(item)
```

- [' coffee ' , ' jaggery ' , ' cheese ' , ' butter ']
- [' coffee ' , ' sugar ' , ' cheese ' , ' butter ']
- coffee
  jaggery
  cheese
  butter
- coffee jaggery cheese butter

2) Which of the following code prints the sum of weights of people in the lift? ***1 point***

```
sum=0
weights=[97, 52, 65, 43, 77]
for w in weights:
        sum=sum+w
print(sum)
```

```
sum=0
weights=[97, 52, 65, 43, 77]
for w in range(len(weights)):
        sum=sum+w
print(sum)
```

```
sum=0
weights=[97, 52, 65, 43, 77]
for w in weights:
sum=sum+w
print(sum)
```

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)
Programming Assignment 1 : Average (/noc20_cs83/progassignment?name=283)
Programming Assignment 2 : List Slicing (/noc20_cs83/progassignment?name=284)
Programming Assignment 3 : Divisibility (/noc20_cs83/progassignment?name=285)
Quiz : Assignment 3 (assessment?name=295)
Text Transcripts
Download Videos
Books

```
sum=0
weights=[97, 52, 65, 43, 77]
for w in weights:
        sum=w
print(sum)
```

3) Consider a python list named 'book titles'. Pick the statement to add 'Who moved my cheese?' as the third item. ***1 point***

Given: book titles = ['Exam Warriors', 'Evil in the Mahabharata', '6 TIMES THINNER', 'The Driver in the Driverless Car', 'Evolution']

- book titles.append(2,'Who moved my cheese?')
- **book titles.insert(2,'Who moved my cheese?')**
- book titles.insert(3,'Who moved my cheese?')
- book titles.append(3,'Who moved my cheese?')

4) Pick the relevant output for the given code. ***1 point***

```
n=[1,4,2,8,21,17]
n.reverse()
print(n)
```

- [1, 2, 4, 8, 17, 21]
- [21, 17, 8, 4, 2, 1]
- **[17, 21, 8, 2, 4, 1]**
- [1, 4, 2, 8, 21, 17]

5) Specify the purpose of 'break' statement inside a nested loop. ***1 point***

- Ends execution of the program
- Ends execution of the outermost loop
- Skips the current iteration of the loop
- Ends the execution of the loop

6) You are given a list, 'marks' scored by 30 students. Identify the instruction to find the 2% trimmed mean for the given data. ***1 point***

- m=stats.trim_mean(marks,0.2)
- m=stats.trim_mean(marks,0.03)
- m=stats.trim_mean(30,0.02)
- **m=stats.trim_mean(marks,0.02)**

7) How will you simulate 'Rolling a Dice' with six faces by making use of 'random' library? ***1 point***

- roll= random.choice(1,2,3,4,5,6)
- roll= random.range(1,5)
- **roll= random.randint(1,6)**
- roll= random.random(6)

8) Consider a python list named 'book_titles'. ***1 point***

Given: book_titles = ['Exam Warriors', 'Evil in the Mahabharata', '6 TIMES THINNER', 'The Driver in the Driverless Car', 'Evolution']

What is the output for the following operation?

book_titles[4:]

- **['Evolution']**
- ['Exam Warriors','Evil in the Mahabharata', '6 TIMES THINNER', 'The Driver in the Driverless Car']
- [ ]
- ['Exam Warriors', 'Evil in the Mahabharata', '6 TIMES THINNER']

9) Assuming, there is no file named 'file.txt' on my computer, what does the following code do? ***1 point***

```
with open('file.txt','w') as f:
        f.write('Hey! I am writing.');
f.close()
with open('file.txt','w') as f:
        f.write('Hey I am writing the second line.');
f.close()
with open('file.txt','r') as f:
        print(f.read())
f.close()
```

- Shows error
- Displays: Hey I am writing the second line
- Displays: Hey! I am writing.Hey I am writing the second line.
- Displays: Hey! I am writing.

10) Predict the output *1 point*

```
my_para='i am to go to KT in A'
print(list(my_para))
```

- ['i', ' ', 'a', 'm', ' ', 't', 'o', ' ', 'g', 'o', ' ', 't', 'o', ' ', 'K', 'T', ' ', 'i', 'n', ' ', 'A']
- ['i', 'a', 'm', 't', 'o', 'g', 'o', 't', 'o', 'K', 'T', 'i', 'n', 'A']
- ['i', 'am', 'to', 'go', 'to', 'KT', 'in', 'A']
- ['i', ' ', 'am',' ', 'to',' ', 'go',' ', 'to',' ', 'KT',' ', 'in',' ', 'A']

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

Submit Answers