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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

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)

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2021-08-25, 23:59 IST.

Assignment submitted on 2021-08-25, 20:24 IST

 1) List items are ordered, changeable, and do not allow duplicate values. State true or false **1 point**

- ☐ True
☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

 2) What will the output of the following program be? **1 point**

```
a=[1,2,3,4,5,6,7,8,9,10]
for i in range(0,len(a),2):
    print(a[i])
```

- ☐ All numbers from 1 to 10
☐ All even numbers from 1 to 10
☒ All odd numbers from 1 to 10

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)

☐ It will give an error

Yes, the answer is correct.

Score: 1

Accepted Answers:

All odd numbers from 1 to 10

3) What will the output of the following program be?

1 point

```
a=[1,2,3,4,5,6,7,8,9,10]
a.insert(-3, 999)
print(a)
```

☐ [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

☒ [1, 2, 3, 4, 5, 6, 7, 999, 8, 9, 10]

☐ It will give an error

☐ [999, 0, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Yes, the answer is correct.

Score: 1

Accepted Answers:

[1, 2, 3, 4, 5, 6, 7, 999, 8, 9, 10]

4) Which command will insert the new element to the list at the end? Consider the name of the list to be Shopping and the new element to be inserted is "oil" . **1 point**

☐ Shopping.append("oil")

☐ Shopping.insert(len(Shopping),"oil")

☒ Both option a and b

☐ Shopping.add("oil")

Yes, the answer is correct.

Score: 1

Accepted Answers:

Both option a and b

5) Which method is to find out how many times a particular list element occurs?

1 point

☒ count

☐ repeat

☐ unique

☐ sum

Yes, the answer is correct.

Score: 1

Accepted Answers:

count

6) Which of these methods is used to find the mean of the below defined list? a = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10] **1 point**

● 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=284)

● Week 3: Programming Assignment 1 - Area of a rectangle (/noc21_cs75/progassignment? name=296)

● Week 3: Programming Assignment 2 - Smallest and Largest (/noc21_cs75/progassignment? name=297)

● Week 3: Programming Assignment 3 - Right angled Triangle (/noc21_cs75/progassignment? name=298)

● Week 3 Feedback Form: The Joy of Computing using Python

- ☒ statistics.median(a)
☐ stats.median(a)
☐ median(a)
☐ average(a)

Yes, the answer is correct.

Score: 1

Accepted Answers:

statistics.median(a)

7) Which of these following statements is true regarding trimmed mean? **1 point**

- ☐ It removes a small percentage of the largest and smallest values before calculating the mean
☐ Trimmed mean is also known as truncated mean
☒ Both a and b are true
☐ Trimmed mean removes a small percentage of largest value before calculating the mean

Yes, the answer is correct.

Score: 1

Accepted Answers:

Both a and b are true

8) What is the output of the following program? **1 point**

```
a="Hello"
print("+".join(a))
```

- ☒ H+e+l+l+o
☐ +Hello+
☐ +H+e+l+l+o
☐ +Hello

Yes, the answer is correct.

Score: 1

Accepted Answers:

H+e+l+l+o

9) Which of these methods is used to jumble a given word and give an output separated by a " , " symbol? (Consider the string to be stored in variable a) **1 point**

- ☒ " , ".join(random.sample(a, len(a)))
☐ random.sample(a, len(a)).join(" , ")
☐ random.sample(a, len(a))
☐ It is not possible to jumble a word

Yes, the answer is correct.

Score: 1

Accepted Answers:

(unit?
unit=57&lesson=77)

week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Programming
test - Session 1
(10AM to 11AM)**

**October 10
Programming
test - Session 2
(8PM to 9PM)**

`" , ".join(random.sample(a, len(a)))`

10) Which method can be used to remove an element at a particular index from the list?

1 point

- ☒ `pop()`
- ☐ `delete()`
- ☐ `discard()`
- ☐ The element cannot be removed

Yes, the answer is correct.

Score: 1

Accepted Answers:

`pop()`