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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 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

● Snakes and Ladders - Not on the Board (unit? unit=143&lesso n=144)

● Snakes and Ladders - Not on the Board - Part 01 (unit? unit=143&lesso n=145)

Week 7 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-03-15, 23:59 IST.

Assignment submitted on 2023-03-11, 12:07 IST

1) Which of the following is/are uses of functions?

1 point

- ☐ Gives a higher-level overview of the task to be performed
- ☐ Reusability- uses the same functionality at various places
- ☐ A better understanding of code
- ☒ All of the above
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

2) What is the output of the following spiral print python function?

1 point

● Snakes and Ladders - Not on the Board - Part 02 (unit? unit=143&lesso n=146)

● Snakes and Ladders - Not on the Board - Part 03 (unit? unit=143&lesso n=147)

● Snakes and Ladders - Not on the Board - Part 04 (unit? unit=143&lesso n=148)

● Snakes and Ladders - Not on the Board - Part 05 (unit? unit=143&lesso n=149)

● Snakes and Ladders - Not on the Board - Part 06 (unit? unit=143&lesso n=150)

● Spiral Traversing - Let's Animate (unit? unit=143&lesso n=151)

● Spiral Traversing - Let's Animate - Part 01 (unit? unit=143&lesso n=152)

● Spiral Traversing - Let's Animate - Part 02 (unit? unit=143&lesso n=153)

● Spiral Traversing - Let's Animate - Part 03 (unit? unit=143&lesso n=154)

● Spiral Traversing - Let's Animate -

```
def spiralprint(m, n, spiralmatrix):
    k = 0
    l = 0
    while (k < m and l < n):
        for i in range(l, n):
            print(spiralmatrix[k][i], end=" ")
            k += 1
        for i in range(k, m):
            print(spiralmatrix[i][n - 1], end=" ")
            n -= 1
        if (k < m):
            for i in range(n - 1, (l - 1), -1):
                print(spiralmatrix[m - 1][i], end=" ")
                m -= 2
        if (l < n):
            for i in range(m - 1, k - 1, -1):
                print(spiralmatrix[i][l], end=" ")
                l += 2
    spiralmatrix = [[1, 2, 3, 4, 5, 6],
                    [7, 8, 9, 10, 11, 12],
                    [13, 14, 15, 16, 17, 18]]

    rows = 3
    cols = 6
    spiralprint(rows, cols, spiralmatrix)
```

- ☐ 1 2 3 4 5 6 12 18 17 16 15 14 13 7 8 9 10 11
- ☒ 1 2 3 4 5 6 12 18 17 16 15 14 13
- ☐ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
- ☐ 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Yes, the answer is correct.

Score: 1

Accepted Answers:

1 2 3 4 5 6 12 18 17 16 15 14 13

3) Which of the following library moves the turtle backward?

1 point

- ☐ turtle.back(distance)
- ☐ turtle.bk(distance)
- ☐ turtle.backward(distance)
- ☒ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

4) Which of the following library has to be imported to plot the route map using GPS locations in python?

1 point

- ☐ gmpplot
- ☐ csv
- ☒ both
- ☐ None

Yes, the answer is correct.

Score: 1

Accepted Answers:

both

5) bytes, bytearray, memoryview are type of the ____ data type.

1 point

- ☐ Mapping Type

Part 04 (unit?
unit=143&lesso
n=155)

● Spiral
Traversing -
Let's Animate -
Part 05 (unit?
unit=143&lesso
n=156)

● Spiral
Traversing -
Let's Animate -
Part 06 (unit?
unit=143&lesso
n=157)

● Spiral
Traversing -
Let's Animate -
Part 07 (unit?
unit=143&lesso
n=158)

● GPS - Track the
route (unit?
unit=143&lesso
n=159)

● GPS - Track the
route - Part 01
(unit?
unit=143&lesso
n=160)

● GPS - Track the
route - Part 02
(unit?
unit=143&lesso
n=161)

● GPS - Track the
route - Part 03
(unit?
unit=143&lesso
n=162)

● GPS - Track the
route - Part 04
(unit?
unit=143&lesso
n=163)

○ Week 7
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=143&lesso
n=164)

● Quiz: Week 7 :
Assignment 1
(assessment?
name=314)

- ☐ Boolean Type
☒ Binary Types
☐ All of the above
☐ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Binary Types

6) In the Snakes and Ladders game, the least number of times a player has to roll a die with **1 point** the following ladder positions is _____ ladders = { 3: 20, 6: 14, 11: 28, 15: 34, 17: 74, 22: 37, 38: 59, 49: 67, 57: 76, 61: 78, 73: 86, 81: 98, 88: 91 }

- ☐ 4
☒ 5
☐ 6
☐ 7

Yes, the answer is correct.
Score: 1

Accepted Answers:
5

7) Which of the following code snippet will create a tuple in python?

1 point

- ☒ name = ('kiran','bhushan','madan')
☐ name = {'kiran','bhushan','madan'}
☐ name = ['kiran','bhushan','madan']
☐ None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
name = ('kiran','bhushan','madan')

8) What does the following program plot?

1 point

```
import random
import matplotlib.pyplot as plt
rn=random.randint(0,9)
print(rn)
l=[0 for i in range(10)]
y=[]
for i in range(10):
    x=int(input())
    y.append(i)
    if x==rn:
        l[x]+=1
plt.plot(y,l)
plt.show()
```

- ☐ Plots the random number generated in each iteration
☒ Plots the number of times the given input matches with the random number generated
☐ Plots the input entered for each iteration

● Week 7:
Programming
Assignment 1
(/noc23_cs20/pr
ogassignment?
name=315)

● Week 7:
Programming
Assignment 2
(/noc23_cs20/pr
ogassignment?
name=316)

● Week 7:
Programming
Assignment 3
(/noc23_cs20/pr
ogassignment?
name=317)

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Text
Transcripts ()

Download
Videos ()

Books ()

Live Session
()

Problem
Solving
Session ()

☐ none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Plots the number of times the given input matches with the random number generated

9) Sentiment analysis involves working with _____

1 point

- ☐ a piece of information is useful or not
- ☐ a piece of information is biased or unbiased
- ☐ a piece of information is true or false
- ☒ a piece of information is positive or negative

Yes, the answer is correct.

Score: 1

Accepted Answers:

a piece of information is positive or negative

10) What does the following code snippet in python compute

1 point

```
text1 = input()
len1 = len(text1)
text2 = input()
len2 = len(text2)
for i in range(0, len1-len2+1):
    j = 0
    while ((j < len2) and (text1[i + j] == text2[j])):
        j = j + 1
    if (j==len2):
        print(text2)
```

- ☐ checks whether the two given texts are the same
- ☐ searches for text2 in text1
- ☒ finds all the occurrences of text2 in text1
- ☐ none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

finds all the occurrences of text2 in text1