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
Snakes and Ladders - Not on the Board - Part 01
Snakes and Ladders - Not on the Board - Part 02
Snakes and Ladders - Not on the Board - Part 03
Snakes and Ladders - Not on the Board - Part 04
Snakes and Ladders - Not on the Board - Part 05
Snakes and Ladders - Not on the Board - Part 06
Spiral Traversing - Let's Animate
Spiral Traversing - Let's Animate - Part 01
Spiral Traversing - Let's Animate - Part 02
Spiral Traversing - Let's Animate - Part 03
Spiral Traversing - Let's Animate - Part 04
Spiral Traversing - Let's Animate - Part 05
Spiral Traversing - Let's Animate - Part 06
Spiral Traversing - Let's Animate - Part 07
GPS - Track the route
GPS - Track the route - Part 01
GPS - Track the route - Part 02
GPS - Track the route - Part 03
GPS - Track the route - Part 04
Week 7 Feedback Form: The Joy of Computing using Python
Quiz: Week 7 : Assignment 1
Week 7: Programming Assignment 1
Week 7: Programming Assignment 2
Week 7: Programming Assignment 3
Week 8
Week 9
Week 10

Week 7 : Assignment 1

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-03-05, 12:21 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*

```
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*

- gmplot
- 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
- Boolean Type
- Binary Types
- All of the above
- None of the above

Yes, the answer is correct.
Score: 1

Week 11
Week 12
Text Transcripts
Download Videos
Books
Live Session
Problem Solving Session

Accepted Answers:
Binary Types

6) In the Snakes and Ladders game, the least number of times a player has to roll a die with the following ladder positions is _____ *1 point*
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
- 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