

Assessment sub
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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 7: Assignment 7.

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&lesson=144)

● Snakes and
Ladders - Not
on the Board -

Week 7: Assignment 7

Your last recorded submission was on 2021-09-06, 16:50 Due date: 2021-09-15, 23:59 IST.

1) What will the following program do?

1 point

```
from PIL import Image
im=Image.open('snakesandladders.png')
im.show()
im.save('snakeimage.png')
```

- ☐ Rename the snakesandladders.png file as snakeimage.png
- ☐ Creates a new file called snakeimage.png
- ☒ Creates a new file called snakeimage.png with the same content as in the snakesandladders.png
- ☐ Invalid operation

2) Which of the following statements is wrong regarding csv?

1 point

- ☐ CSV stands for Comma Separated Values
- ☐ It's a simple file format used to store tabular data, such as spreadsheet or database
- ☐ The use of the commas a field separator is the source of the name for this file format
- ☒ None of the above

3) If a player has a score of 87 and rolls the dice in the snake and ladder game. If he gets a 5, what will be the player's position next considering the dictionary associated with the game? 1 point

Assessment submitted X

Part 01 (unit? unit=143&lesson=145)
<div><div></div><div>Snakes and Ladders - Not on the Board - Part 02 (unit? unit=143&lesson=146)</div></div>
<div><div></div><div>Snakes and Ladders - Not on the Board - Part 03 (unit? unit=143&lesson=147)</div></div>
<div><div></div><div>Snakes and Ladders - Not on the Board - Part 04 (unit? unit=143&lesson=148)</div></div>
<div><div></div><div>Snakes and Ladders - Not on the Board - Part 05 (unit? unit=143&lesson=149)</div></div>
<div><div></div><div>Snakes and Ladders - Not on the Board - Part 06 (unit? unit=143&lesson=150)</div></div>
<div><div></div><div>Spiral Traversing - Let's Animate (unit? unit=143&lesson=151)</div></div>
<div><div></div><div>Spiral Traversing - Let's Animate - Part 01 (unit? unit=143&lesson=152)</div></div>
<div><div></div><div>Spiral Traversing - Let's Animate - Part 02 (unit? unit=143&lesson=153)</div></div>
<div><div></div><div>Spiral Traversing - Let's Animate - Part 03 (unit? unit=143&lesson=154)</div></div>
<div><div></div><div>Spiral Traversing - Let's Animate - Part 04 (unit? unit=143&lesson=155)</div></div>

```
dict={
  92:79,
  95:51,
  87:18,
  62:22,
  57:40,
  52:29,
  17:13,
  80:100,
  90:91,
  75:86,
  58:77,
  28:84,
  8:30,
  3:21
}
```

☐ 79

☐ 97

☐ 92

☒ The player cannot be in position number 87

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

1 point

Assessment submitted.

X

☐ Spiral Traversing - Let's Animate - Part 05 (unit? unit=143&lesson=156)

☐ Spiral Traversing - Let's Animate - Part 06 (unit? unit=143&lesson=157)

☐ Spiral Traversing - Let's Animate - Part 07 (unit? unit=143&lesson=158)

☐ GPS - Track the route (unit? unit=143&lesson=159)

☐ GPS - Track the route - Part 01 (unit? unit=143&lesson=160)

☐ GPS - Track the route - Part 02 (unit? unit=143&lesson=161)

☐ GPS - Track the route - Part 03 (unit? unit=143&lesson=162)

☐ GPS - Track the route - Part 04 (unit? unit=143&lesson=163)

☒ **Quiz: Week 7: Assignment 7 (assessment? name=312)**

☒ Week 7: Programming Assignment 1 - Binary Matrix (/noc21_cs75/progassignment? name=313)

☒ Week 7: Programming Assignment 2 - Number Triangle II (/noc21_cs75/progassignment? name=314)

```
R = 4
C = 5

def Traversal(m, n, a):
    k = 0
    l = 0
    stk = []

    while (k <= m and l <= n):
        for i in range(l, n + 1):
            stk.append(a[k][i])
            k += 1
        for i in range(k, m + 1):
            stk.append(a[i][n])
            n -= 1
        if (k <= m):
            for i in range(n, l - 1, -1):
                stk.append(a[m][i])
                m -= 1
        if (l <= n):
            for i in range(m, k - 1, -1):
                stk.append(a[i][l])
                l += 1

    while len(stk) != 0:
        print(str(stk[-1]), end = " ")
        stk.pop()

mat = [[1, 2, 3, 4, 5],
        [6, 7, 8, 9, 10],
        [11, 12, 13, 14, 15],
        [16, 17, 18, 19, 20]]

Traversal(R - 1, C - 1, mat)
```

- ☒ 12 13 14 9 8 7 6 11 16 17 18 19 20 15 10 5 4 3 2 1
- ☐ 1 2 3 4 5 10 15 20 19 18 17 16 11 6 7 8 9 14 13 12
- ☐ 1 6 11 16 17 18 19 20 15 10 5 4 3 2 7 12 13 14 9 8
- ☐ 13 12 7 8 9 14 19 18 17 16 11 6 1 2 3 4 5 10 15 20

5) The default drawing state of the turtle is pendown. State whether the above statement is true or fault.

1 point

- ☒ True
- ☐ False

6) What is the output of the following program?

1 point

Week7:
Assessment submitted.

X

Assignment 3 -
Lower
Triangular
Matrix
(/noc21_cs75/progassignr
name=315)

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```
import turtle
tr=turtle.Turtle()

for i in range (9):
    tr.forward(90)
    tr.left(45)
```

- ☒ Octagon
☐ Pentagon
☐ Nonagon
☐ Hexagon

7) While using the turtle speed method, the speed value 1 is faster than speed value 0. **1 point**
State whether the above statement is true or false.

- ☐ True
☒ False

8) Which of these methods is used to make the turtle rotate 45 degrees in the anticlockwise direction. **1 point**

- ☐ tr.turn(-45)
☐ tr.right(-45)
☐ tr.left(45)
☒ Both b and c

9) Which of these packages allow us to plot data on google maps? **1 point**

- ☐ gmpplot
☐ plot
☐ googleplot
☒ matplotlib.gmpplot

10) Which of these following methods will change the color of the lines that will be drawn by the turtle? **1 point**

- ☒ pencolor()
☐ color()
☐ Both a and b
☐ None of the above

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

Submit Answers