



(https://swayam.gov.in/nc_details/NPTEL)

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 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Page Rank -How does Google Work ? -

Week 12: Assignment 12

The due date for submitting this assignment has passed.

Due on 2023-04-19, 23:59 IST.

Assignment submitted on 2023-04-15, 22:54 IST

- Helps to work with human language data.
 - Helps to convert machine data into human language.
 - Helps to work on gibberish language.
 - Helps to translate dog language into human language

Yes, the answer is correct.

Score: 1

Accepted Answers:

1) NLTK _____

Helps to work with human language data.

2) The following code will return:

1 point

```
def test(word):
    new_word = ''
    for ch in word:
        if ch>='a' and ch<='z':
            temp = ord(ch)
            temp = temp - 32
            temp = chr(temp)
            new_word = new_word + temp</pre>
```

- Converting lower case letters into upper case.
- Converting upper case letters into lower case.
- Return the same word

Part 01 (unit? unit=245&lesso n=246)

- Page Rank -How does
 Google Work ? -Part 02 (unit? unit=245&lesso n=247)
- Page Rank How does
 Google Work ? Part 03 (unit?
 unit=245&lesso
 n=248)
- Page Rank How does
 Google Work ? Part 04 (unit?
 unit=245&lesso
 n=249)
- Page Rank How does
 Google Work ? Part 05 (unit?
 unit=245&lesso
 n=250)
- Page Rank How does
 Google Work ? Part 06 (unit?
 unit=245&lesso
 n=251)
- Page Rank -How does Google Work ? -Part 07 (unit? unit=245&lesso n=252)
- Page Rank How does
 Google Work ? Part 08 (unit?
 unit=245&lesso
 n=253)
- Page Rank How does
 Google Work ? Part 09 (unit?
 unit=245&lesso
 n=254)
- Page Rank How does
 Google Work ? Part 10 (unit?
 unit=245&lesso
 n=255)

Error

Yes, the answer is correct.

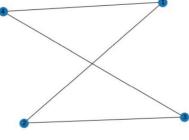
Score: 1

Accepted Answers:

Converting lower case letters into upper case.

3) How many edges are there in the following graph?





- Three
- Five
- Four
- O Two

Yes, the answer is correct.

Score: 1

Accepted Answers:

Four

4) A complete graph will have a degree of separation.

1 point

1 point

- **2**
- 1
- **3**
- Depends on the number of nodes.

Yes, the answer is correct.

Score: 1

Accepted Answers:

1

5) What is the output of the following code?

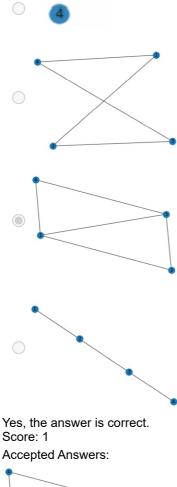
```
import networkx as nx
import matplotlib.pyplot as plt

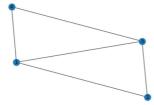
G = nx.Graph()
G.add_nodes_from([1, 2, 3, 4])
G.add_edges_from([(1, 2), (2, 1), (2, 3), (3,4), (4,1), (3,1)])

nx.draw(G,with_labels=True)
plt.show()
```



- Page Rank -How does Google Work?-Part 11 (unit? unit=245&lesso n=256)
- Page Rank -How does Google Work?-Part 12 (unit? unit=245&lesso n=257)
- Page Rank -How does Google Work?-Part 13 (unit? unit=245&lesso n=258)
- Page Rank -How does Google Work? -Part 14 (unit? unit=245&lesso n=259)
- Page Rank -How does Google Work?-Part 15 (unit? unit=245&lesso n=260)
- O Page Rank -How does Google Work?-Part 16 (unit? unit=245&lesso n=261)
- Collatz Conjecture -Part 01 (unit? unit=245&lesso n=262)
- Collatz Conjecture -Part 02 (unit? unit=245&lesso n=263)
- JOC Conclusion (unit? unit=245&lesso n=264)
- Week 12 Feedback Form: The Joy of Computing using Python (unit?





6) What is the shape of the following numpy array? numpy.array([[1,2,3], [4,5,6]])

- (2,3)
- (3,2)
- (3,3)
- (2,2)

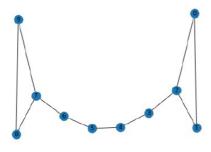
Yes, the answer is correct.

Score: 1

Accepted Answers:

(2,3)

7) Which is the following graph?



- Triangle Graph
- Directed Graph

1 point

unit=245&lesso n=265)

Quiz: Week 12: Assignment12(assessment?name=335)

Week 12:
 Programming
 Assignment 1
 (/noc23_cs20/pr ogassignment?
 name=336)

Week 12:
 Programming
 Assignment 2
 (/noc23_cs20/pr ogassignment?
 name=337)

Week 12:
 Programming
 Assignment 3
 (/noc23_cs20/pr ogassignment?
 name=338)

Text
Transcripts ()

Download Videos ()

Books ()

Live Session ()

Problem Solving Session ()

- Barbell Graph
- Wheel graph

Yes, the answer is correct.

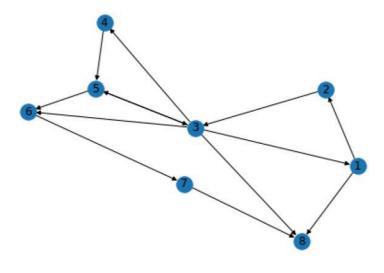
Score: 1

Accepted Answers:

Barbell Graph

8) What will be the G.out_degree(3) for the following graph(G)?





4

6

3

None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

9) What should we do when encountered a sink?

1 point

- Stop the algorithm.
- Start with the last node.
- Randomly choose a node from all nodes.
- Randomly choose a node from neighbor nodes.

Yes, the answer is correct.

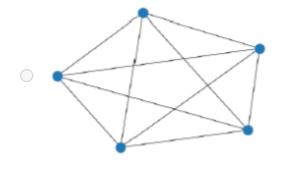
Score: 1

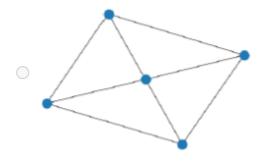
Accepted Answers:

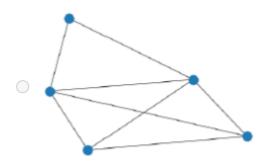
Randomly choose a node from all nodes.

10) Which of the following is a star graph of node 5?









Yes, the answer is correct. Score: 1

Accepted Answers:

