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2022d1r013@mietjammu.in ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy Of Computing Using Python
(course)



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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

• Introduction to Programming (unit? unit=17&lesson=n=18)

• Why Programming? (unit? unit=17&lesson=n=19)

• Programming for Everybody (unit?

Week 1 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-07-31, 22:39 IST

1) What will be the value of my variable at the end of the loop. 1 point



- 50
- 40
- 49
- 0

Yes, the answer is correct.
Score: 1

Accepted Answers:
40

2) Which of the following is not a type of block in Scratch?



unit=17&lesso
n=20)

● Any
Prerequisites?
(unit?
unit=17&lesso
n=21)

● Where to
start? (unit?
unit=17&lesso
n=22)

● Why do we
have so many
languages?
(unit?
unit=17&lesso
n=23)

● How to go
about
programming?
(unit?
unit=17&lesso
n=24)

● Why to learn
programming?
(unit?
unit=17&lesso
n=25)

● What is
programming?
(unit?
unit=17&lesso
n=26)

● How to give
instructions?
(unit?
unit=17&lesso
n=27)

● Introduction to
Scratch (unit?
unit=17&lesso
n=28)

● Introduction to
Loops (unit?
unit=17&lesso
n=29)

● More about
Loops (unit?
unit=17&lesso
n=30)

- Motion
- Looks
- Sound
- Jump

Yes, the answer is correct.
Score: 1

Accepted Answers:
Jump

3) What is the main function of the "if" block in Scratch?

1 point

- To repeat a set of instructions
- To create a loop
- To control the flow of the program based on a condition
- To play a sound

Yes, the answer is correct.
Score: 1

Accepted Answers:
To control the flow of the program based on a condition

4) Which block in Scratch is used to control the movement of a sprite?

1 point

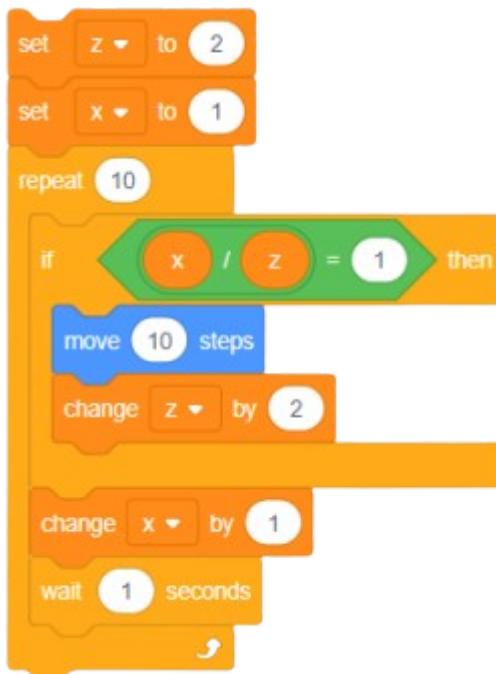
- Motion
- Looks
- Sound
- Control

Yes, the answer is correct.
Score: 1

Accepted Answers:
Motion

5) Imagine sprite to be a scooter. How many times scooter will move forward?

1 point



- Solution to
Looping
Problem (unit?
unit=17&lesso
n=31)
- Scratch :
Animation 1
(unit?
unit=17&lesso
n=32)
- Scratch :
Animation 2
(unit?
unit=17&lesso
n=33)
- Scratch :
Animation 3
(unit?
unit=17&lesso
n=34)
- More on
Scratch (unit?
unit=17&lesso
n=35)
- Week 1
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=17&lesso
n=36)
- Quiz: Week 1
: Assignment
(assessment?
name=339)
- Week 2 ()**
- Week 3 ()**
- week 4 ()**
- Week 5 ()**
- Week 6 ()**
- Week 7 ()**
- Week 8 ()**
- 7
 4
 6
 5
- No, the answer is incorrect.
Score: 0
Accepted Answers:
5
- 6) Which block in Scratch is used to make a sprite say something? **1 point**
- Motion
 Looks
 Sound
 Control
- No, the answer is incorrect.
Score: 0
Accepted Answers:
Looks
- 7) What is the purpose of the "repeat" block in Scratch? **1 point**
- To repeat a set of instructions a specific number of times
 To repeat a set of instructions forever
 To repeat a set of instructions based on a condition
 To play a sound repeatedly
- Yes, the answer is correct.
Score: 1
Accepted Answers:
To repeat a set of instructions a specific number of times
- 8) Which block in Scratch is used to wait for a certain amount of time before continuing **1 point** with the program?
- Motion
 Looks
 Sound
 Control
- Yes, the answer is correct.
Score: 1
Accepted Answers:
Control
- 9) Which block in Scratch is used to detect when a sprite touches another sprite? **1 point**
- Motion
 Looks
 Sound
 Sensing



Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Text

Transcripts ()

Download

Videos ()

Books ()

Problem

Solving

Session -

July 2023 ()

Yes, the answer is correct.

Score: 1

Accepted Answers:

Sensing

10) What is the purpose of the "broadcast" block in Scratch?

1 point

- To send a message to another sprite
- To play a sound
- To move a sprite
- To change the background color

Yes, the answer is correct.

Score: 1

Accepted Answers:

To send a message to another sprite



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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

● Introduction to Anaconda (unit? unit=37&lesson=n=38)

● Installation of Anaconda (unit? unit=37&lesson=n=39)

● Introduction to Spyder IDE

Week 2 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-08-09, 23:59 IST.

Assignment submitted on 2023-08-08, 18:07 IST

1) Which of the following is a high-level programming language? **1 point**

- Assembly
- C
- Python
- Machine Language

Yes, the answer is correct.

Score: 1

Accepted Answers:

Python

2) Which of the following is an example of a front-end programming language? **1 point**

- PHP
- Java
- HTML
- SQL

Yes, the answer is correct.

Score: 1

Accepted Answers:

HTML

3) Which of the following is used to store data in a programming language?



<p>(unit? unit=37&lesso n=40)</p> <p>● Printing statements in Python (unit? unit=37&lesso n=41)</p> <p>● Understanding Variables in Python (unit? unit=37&lesso n=42)</p> <p>● Executing a sequence of instructions in the Console (unit? unit=37&lesso n=43)</p> <p>● Writing your First Program (unit? unit=37&lesso n=44)</p> <p>● Taking inputs from the user (unit? unit=37&lesso n=45)</p> <p>● Discount Calculation (unit? unit=37&lesso n=46)</p> <p>● Motivation to if condition (unit? unit=37&lesso n=47)</p> <p>● A reminder on how to deal with numbers (unit? unit=37&lesso n=48)</p> <p>● Understanding if condition's working (unit? unit=37&lesso n=49)</p>	<p><input checked="" type="checkbox"/> Variables <input type="checkbox"/> Arrays <input type="checkbox"/> Loops <input type="checkbox"/> Conditionals</p> <p>Partially Correct. Score: 0.5</p> <p>Accepted Answers: <i>Variables</i> <i>Arrays</i></p> <p>4) Which statement will print 'The joy of computing'? 1 point</p> <p><input type="radio"/> <code>print(The joy of computing)</code> <input type="radio"/> <code>print The joy of computing</code> <input type="radio"/> <code>printf('The joy of computing')</code> <input checked="" type="radio"/> <code>print('The joy of computing')</code></p> <p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: <code>print('The joy of computing')</code></p> <p>5) What should be the value of <code>_</code> to print all numbers from 0-10 1 point</p> <pre style="background-color: black; color: green;"><code>for i in range(_): print(i)</code></pre> <p><input type="radio"/> 10 <input type="radio"/> 9 <input checked="" type="radio"/> 11 <input type="radio"/> None of the above</p> <p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: <code>11</code></p> <p>6) Which of the following keyword is used to declare a function in a programming language? 1 point</p> <p><input checked="" type="radio"/> def <input type="radio"/> var <input type="radio"/> int <input type="radio"/> float</p> <p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: <code>def</code></p>
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- Realizing the importance of syntax and indentation (unit? unit=37&lesson n=50)

- Introductions to loops (unit? unit=37&lesson n=51)

- Loops: Sum of numbers (unit? unit=37&lesson n=52)

- Loops: Sum of numbers (continued) (unit? unit=37&lesson n=53)

- Loops: Multiplication Tables (unit? unit=37&lesson n=54)

- Introduction to While Loop (unit? unit=37&lesson n=55)

- Week 2 Feedback Form: The Joy of Computing using Python (unit? unit=37&lesson n=56)

- Quiz: Week 2 : Assignment (assessment? name=340)

[Week 3 \(\)](#)

[week 4 \(\)](#)

[Week 5 \(\)](#)

[Week 6 \(\)](#)

7) What will be the output of the following code?

1 point

```
b = 0

for i in range(10):
    b = b+i

print(b)
```

- 0
- 45
- 43
- 50

Yes, the answer is correct.

Score: 1

Accepted Answers:

45

8) What value will c store in it after the execution of the below code?

0 points

c=b**3

- Value of b multiplied by 3
- Cube of b
- Value of b multiplied with 3 twice
- It will throw an error

No, the answer is incorrect.

Score: 0

Accepted Answers:

It will throw an error

9) What will be the output? suppose the input is 30

1 point

```
1
2     number = input("Enter Number")
3
4     new_number = number * 2
5
6     print(new_number)
7
```

- 60
- Error
- 3030
- 30

Yes, the answer is correct.

Score: 1

Accepted Answers:

3030



[Week 7 \(\)](#)

[Week 8 \(\)](#)

[Week 9 \(\)](#)

[Week 10 \(\)](#)

[Week 11 \(\)](#)

[Week 12 \(\)](#)

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Solving
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July 2023 \(\)](#)

10) What is the output for the following program?

1 point

```
a=3  
b=4  
c=a>b  
print(c)
```

- True
- False
- It will display an error message
- Boolean

Yes, the answer is correct.

Score: 1

Accepted Answers:

False



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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)

Week 3 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-08-16, 23:59 IST.

Assignment submitted on 2023-08-10, 14:42 IST

1) What will be the output of the following code?

1 point

L = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h']

print(L[2:5])

- a, b, c
- a, b, c, d
- c, d, e
- c, d, e, f

Yes, the answer is correct.

Score: 1

Accepted Answers:

c, d, e

2) Which of the following is a valid way to declare a dictionary in Python?

1 point

- {1: "one", 2: "two", 3: "three"}
- [1: "one", 2: "two", 3: "three"]
- (1: "one", 2: "two", 3: "three")
- <1: "one", 2: "two", 3: "three">

Yes, the answer is correct.

- Score: 1
 Accepted Answers:
 {1: "one", 2: "two", 3: "three"}
- 3) Which of the following method is correct to add an element at a specific position? **1 point**
- insert()
 add()
 append()
 index()
- Yes, the answer is correct.
 Score: 1
 Accepted Answers:
insert()
- 4) What is the correct syntax to add an item to the end of a list in Python? **1 point**
- list.add(item)
 list.append(item)
 list.insert(item)
 list.extend(item)
- Yes, the answer is correct.
 Score: 1
 Accepted Answers:
list.append(item)
- 5) Which of the following is not a valid data type in Python? **1 point**
- integer
 string
 float
 character
- Yes, the answer is correct.
 Score: 1
 Accepted Answers:
character
- 6) What is the output of the following code? **0 points**
- ```
for i in range(1, 21):
 if i % 3 == 0 and i % 5 == 0:
 print("FizzBuzz")
 elif i % 3 == 0:
 print("Fizz")
 elif i % 5 == 0:
 print("Buzz")
 else:
 print(i)
```
- Prints numbers from 1 to 20  
 Prints Fizz for multiples of 3 and Buzz for multiples of 5

|                                                                                                                       |                                                                                                                                                                                                                                                  |                |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ul style="list-style-type: none"> <li>● Crowd Computing - Just estimate 06 (unit? unit=57&amp;lesso n=69)</li> </ul> | <p><input type="radio"/> Prints FizzBuzz for multiples of 3 and 5<br/> <input type="radio"/> None of the above</p> <p>No, the answer is incorrect.<br/> Score: 0<br/> Accepted Answers:<br/> <i>Prints FizzBuzz for multiples of 3 and 5</i></p> |                |
| <ul style="list-style-type: none"> <li>● Permutations - Jumbled Words 01 (unit? unit=57&amp;lesso n=70)</li> </ul>    | <p>7) What is the output of the following code?<br/> a = 5<br/> b = 2<br/> print(a // b)</p>                                                                                                                                                     | <b>1 point</b> |
| <ul style="list-style-type: none"> <li>● Permutations - Jumbled Words 02 (unit? unit=57&amp;lesso n=71)</li> </ul>    | <p><input checked="" type="radio"/> 2<br/> <input type="radio"/> 2.5<br/> <input type="radio"/> 3<br/> <input type="radio"/> 2.0</p> <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> 2</p>                              |                |
| <ul style="list-style-type: none"> <li>● Permutations - Jumbled Words 03 (unit? unit=57&amp;lesso n=72)</li> </ul>    | <p>8) What is the output of the following code?<br/> s = "hello"<br/> print(s[::-1])</p>                                                                                                                                                         | <b>1 point</b> |
| <ul style="list-style-type: none"> <li>● Theory of Evolution 01 (unit? unit=57&amp;lesso n=73)</li> </ul>             | <p><input type="radio"/> "hello"<br/> <input checked="" type="radio"/> "olleh"<br/> <input type="radio"/> "hlo"<br/> <input type="radio"/> "leh"</p> <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> "olleh"</p>        |                |
| <ul style="list-style-type: none"> <li>● Theory of Evolution 02 (unit? unit=57&amp;lesso n=74)</li> </ul>             | <p>9) What is the output of the following code?<br/> a = 10<br/> b = 5<br/> c = a % b<br/> print(c)</p>                                                                                                                                          | <b>1 point</b> |
| <ul style="list-style-type: none"> <li>● Theory of Evolution 03 (unit? unit=57&amp;lesso n=75)</li> </ul>             | <p><input type="radio"/> 2<br/> <input type="radio"/> 5<br/> <input checked="" type="radio"/> 0<br/> <input type="radio"/> 1</p> <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> 0</p>                                  |                |
| <ul style="list-style-type: none"> <li>● Theory of Evolution 04 (unit? unit=57&amp;lesso n=76)</li> </ul>             | <p>10) What is the output of the following code?</p>                                                                                                                                                                                             | <b>1 point</b> |
| <ul style="list-style-type: none"> <li>● Week 3 Feedback Form: The Joy of Computing using Python (unit?)</li> </ul>   |                                                                                                                                                                                                                                                  |                |

unit=57&lesso  
n=77)

```
s = "python"
print(s[1:4])
```

● **Quiz: Week 3 : Assignment (assessment? name=342)**

**week 4 ()**

**Week 5 ()**

**Week 6 ()**

**Week 7 ()**

**Week 8 ()**

**Week 9 ()**

**Week 10 ()**

**Week 11 ()**

**Week 12 ()**

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**Problem  
Solving  
Session -  
July 2023 ()**

- "pyt"
- "yth"
- "tho"
- "hon"

Yes, the answer is correct.

Score: 1

Accepted Answers:

"yth"

X



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([https://swayam.gov.in/nc\\_details/NPTEL](https://swayam.gov.in/nc_details/NPTEL))

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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

● Practice is the key (unit?  
unit=78&lesso  
n=79)

● Magic Square:  
Hit and Trial 01  
(unit?)

## Week 4 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-08-23, 23:59 IST.

Assignment submitted on 2023-08-23, 10:09 IST

1) What is a magic square?

1 point

- A square grid of letters
- A square grid of numbers where the sum of the rows, columns, & diagonals are equal
- A special kind of card trick
- A term used in cryptography

Yes, the answer is correct.

Score: 1

Accepted Answers:

*A square grid of numbers where the sum of the rows, columns, & diagonals are equal*

2) In a 3x3 magic square, what is the magic constant?

1 point

- 3
- 6
- 9
- 15

Yes, the answer is correct.

Score: 1

Accepted Answers:

15

3) Which of the following is NOT a property of a magic square?

1 point

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>unit=78&amp;lesso<br/>n=80)</p> <p>● Magic Square:<br/>Hit and Trial 02<br/>(unit?<br/>unit=78&amp;lesso<br/>n=81)</p> <p>● Magic Square:<br/>Hit and Trial 03<br/>(unit?<br/>unit=78&amp;lesso<br/>n=82)</p> <p>● Magic Square:<br/>Hit and Trial 04<br/>(unit?<br/>unit=78&amp;lesso<br/>n=83)</p> <p>● Magic Square:<br/>Hit and Trial 05<br/>(unit?<br/>unit=78&amp;lesso<br/>n=84)</p> <p>● Let's program<br/>and play (unit?<br/>unit=78&amp;lesso<br/>n=85)</p> <p>● Dobble Game<br/>- Spot the<br/>similarity 01<br/>(unit?<br/>unit=78&amp;lesso<br/>n=86)</p> <p>● Dobble Game<br/>- Spot the<br/>similarity 02<br/>(unit?<br/>unit=78&amp;lesso<br/>n=87)</p> <p>● Dobble Game<br/>- Spot the<br/>similarity 03<br/>(unit?<br/>unit=78&amp;lesso<br/>n=88)</p> <p>● Dobble Game<br/>- Spot the<br/>similarity 04<br/>(unit?<br/>unit=78&amp;lesso<br/>n=89)</p> | <p><input type="radio"/> The sum of each row is equal<br/><input type="radio"/> The sum of each column is equal<br/><input type="radio"/> The sum of each diagonal is equal<br/><input checked="" type="radio"/> The sum of each individual element is equal</p>             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Yes, the answer is correct.<br/>Score: 1</p>                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Accepted Answers:<br/><i>The sum of each individual element is equal</i></p>                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>4) What will be the output of the following code? <span style="float: right;">0 points</span></p>                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <pre> 1 import string 2 import random 3 4 A = string.ascii_letters 5 6 n = int(input()) 7 8 for i in range(n): 9     L = [] 10    for j in range(n): 11        L.append(random.choice(A)) 12 13    for element in L: 14        print(element, end='\t') 15 16 print() </pre> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p><input type="radio"/> A magic square of size 2.<br/><input checked="" type="radio"/> A magic square of size n.<br/><input type="radio"/> A magic square of an even size.<br/><input type="radio"/> A magic square of an odd size.</p>                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Yes, the answer is correct.<br/>Score: 0</p>                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Accepted Answers:<br/><i>A magic square of size n.</i></p>                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>5) What will be the output of the following code? <span style="float: right;">1 point</span></p>                                                                                                                                                                          |

- What is your date of birth?  
(unit?  
unit=78&lesso  
n=90)

- Birthday  
Paradox - Find your twin 01  
(unit?  
unit=78&lesso  
n=91)

- Birthday  
Paradox - Find your twin 02  
(unit?  
unit=78&lesso  
n=92)

- Birthday  
Paradox - Find your twin 03  
(unit?  
unit=78&lesso  
n=93)

- Birthday  
Paradox - Find your twin 04  
(unit?  
unit=78&lesso  
n=94)

- Birthday  
Paradox - Find your twin 05  
(unit?  
unit=78&lesso  
n=95)

- What's your favourite movie? (unit?  
unit=78&lesso  
n=96)

- Guess the Movie Name 01 (unit?  
unit=78&lesso  
n=97)

- Guess the Movie Name 02 (unit?  
unit=78&lesso  
n=98)

```
1 import random
2
3 L = []
4 for i in range(10):
5 L.append(random.randint(0, 10))
6
7 L.sort()
8 L.reverse()
9
10 print(L)
```

- Sorted List(L) containing random elements between 0-10 in descending order.
- Sorted List containing random elements between 0-10 in ascending order.
- Sorted List containing elements between 0-10.
- Sorted List containing elements between 0-9 in ascending order.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Sorted List(L) containing random elements between 0-10 in descending order.*

- 6) Which code will generate all prime numbers between 0-100?

**1 point**

```
1 for i in range(2,101):
2 flag=0
3 for j in range(2, 101):
4 if(i%j == 0):
5 flag=1
6 break
7 if(flag == 0):
8 print(i)
```



```
1 for i in range(2,101):
2 flag=0
3 for j in range(2, i):
4 if(i%j == 0):
5 flag=1
6 break
7 if(flag == 0):
8 print(i)
```



- Guess the Movie Name  
03 (unit?  
unit=78&lesso  
n=99)

- Guess the Movie Name  
04 (unit?  
unit=78&lesso  
n=100)

- Guess the Movie Name  
05 (unit?  
unit=78&lesso  
n=101)

- Guess the Movie Name  
06 (unit?  
unit=78&lesso  
n=102)

- Week 4 Feedback  
Form: The Joy  
of Computing  
using Python  
(unit?  
unit=78&lesso  
n=103)

- Quiz: Week 4  
: Assignment  
(assessment?  
name=343)

[Week 5 \(\)](#)

[Week 6 \(\)](#)

[Week 7 \(\)](#)

[Week 8 \(\)](#)

[Week 9 \(\)](#)

[Week 10 \(\)](#)

[Week 11 \(\)](#)

[Week 12 \(\)](#)

[Text  
Transcripts \(\)](#)

```
1 for i in range(2,101):
2 flag=0
3 for j in range(2, i+1):
4 if(i%j == 0):
5 flag=1
6 break
7 if(flag == 0):
8 print(i)
```

```
1 for i in range(101):
2 flag=0
3 for j in range(2, i):
4 if(i%j == 0):
5 flag=1
6 break
7 if(flag == 0):
8 print(i)
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
1 for i in range(2,101):
2 flag=0
3 for j in range(2, i):
4 if(i%j == 0):
5 flag=1
6 break
7 if(flag == 0):
8 print(i)
```

- 7) In the birthday paradox, as the number of people in a group increases, what happens to the probability that two people share a birthday?

**1 point**

- It increases
- It decreases
- It stays the same
- It becomes impossible

Yes, the answer is correct.

Score: 1

Accepted Answers:

*It increases*

- 8) Which module is used to generate random numbers in Python?

**1 point**

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- math
- random
- stats
- numpy

Yes, the answer is correct.

Score: 1

Accepted Answers:

*random*

9) Which function is used to shuffle a list in Python?

**1 point**

- random.shuffle()
- shuffle()
- list.shuffle()
- random\_list()

Yes, the answer is correct.

Score: 1

Accepted Answers:

*random.shuffle()*

10) What is the output of the following code?

**1 point**

```
import random

nums = [1, 2, 3, 4, 5]
random.shuffle(nums)
print(nums)
```

- [1, 2, 3, 4, 5]
- [5, 4, 3, 2, 1]
- A random ordering of the numbers 1 through 5
- An error

Yes, the answer is correct.

Score: 1

Accepted Answers:

*A random ordering of the numbers 1 through 5*

X



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(course)

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Course outline

How does an NPTEL online course work? ()

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week 4 ()

Week 5 ()

Introduction to Dictionaries (unit? unit=104&less on=105)

## Week 5 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-08-30, 23:59 IST.

Assignment submitted on 2023-08-27, 15:26 IST

1) Which is the fastest sorting algorithm?

1 point

- Bubble Sort
- Bucket Sort
- Quick Sort
- Insertion Sort

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Quick Sort*

2) How can you remove all items from a dictionary?

1 point

- `dict.clear()`
- `del dict`
- `dict.remove_all()`
- `dict.pop()`

Yes, the answer is correct.

Score: 1

Accepted Answers:

*dict.clear()*

3) What happens if you try to add a new key to a dictionary that already exists?

0 points

- Speech to Text : No need to write 01 (unit? unit=104&less on=106)
- Speech to Text : No need to write 02 (unit? unit=104&less on=107)
- Speech to Text : No need to write 03 (unit? unit=104&less on=108)
- Monte Hall : 3 doors and a twist 01 (unit? unit=104&less on=109)
- Monte Hall : 3 doors and a twist 02 (unit? unit=104&less on=110)
- Rock, Paper and Scissor : Cheating not allowed !! 01 (unit? unit=104&less on=111)
- Rock, Paper and Scissor : Cheating not allowed !! 02 (unit? unit=104&less on=112)
- Rock, Paper and Scissor : Cheating not allowed !! 03 (unit? unit=104&less on=113)
- Rock, Paper and Scissor : Cheating not allowed !! 04 (unit?)
- The key and its associated value will be updated.  
 The key and its associated value will be added.  
 The key will be added, but the associated value will remain unchanged.  
 An error will occur.
- Yes, the answer is correct.  
Score: 0  
Accepted Answers:  
*The key and its associated value will be updated.*
- 4) Which of the following is true about dictionaries? 1 point
- There can be multiple same keys.  
 Every value must be unique.  
 Every key must be unique.  
 We can't get every key from the dictionary.
- Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*Every key must be unique.*
- 5) What is the syntax to create a dictionary? 1 point
- D = []  
 D = {}  
 D = ()  
 D = dictionary()
- Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*D = {}*
- 6) What will be the output of the following code? 1 point
- ```
1   d = {'a': 20, 'b':30, 'c': 50}
2
3   print(d.items())
```
- 'a' 'b' 'c'
 20 30 50
 ('a', 20), ('b', 30), ('c', 50)
 ('a', 'b', 'c') (20, 30, 50)
- Yes, the answer is correct.
Score: 1
Accepted Answers:
('a', 20), ('b', 30), ('c', 50)
- 7) In the Monte Hall Problem, what is the probability of winning if you switch doors after 1 point the host reveals a goat behind one of the other doors?

unit=104&less
on=114)

- 1/3
- 1/2
- 2/3
- 3/4

Yes, the answer is correct.
Score: 1

Accepted Answers:
2/3

● Sorting and
Searching : 20
questions
game 01 (unit?
unit=104&less
on=115)

● Sorting and
Searching : 20
questions
game 02 (unit?
unit=104&less
on=116)

● Sorting and
Searching : 20
questions
game 03 (unit?
unit=104&less
on=117)

● Sorting and
Searching : 20
questions
game 04 (unit?
unit=104&less
on=118)

● Sorting and
Searching : 20
questions
game 05 (unit?
unit=104&less
on=119)

● Sorting and
Searching : 20
questions
game 06 (unit?
unit=104&less
on=120)

● Sorting and
Searching : 20
questions
game 07 (unit?
unit=104&less
on=121)

● Sorting and
Searching : 20
questions
game 08 (unit?
unit=104&less
on=122)

1 point

8) In the Monte Hall Problem, what is the probability of winning if you do not switch doors after the host reveals a goat behind one of the other doors?

- 1/3
- 1/2
- 2/3
- 3/4

Yes, the answer is correct.
Score: 1

Accepted Answers:
1/3

1 point

9) What is the name of the game show that the Monte Hall Problem was based on?

- Jeopardy
- Wheel of Fortune
- The Price is Right
- Let's Make a Deal

Yes, the answer is correct.
Score: 1

Accepted Answers:
Let's Make a Deal

1 point

10) Which module in Python can be used for Speech to Text conversion?

- SpeechRecognition
- PyAudio
- Wave
- all of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
SpeechRecognition

● Week 5
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=104&less
on=123)

● **Quiz: Week 5**
: Assignment
(assessment?
name=359)

● Week 5:
Programming
Assignment 1
(/noc23_cs108
/progassignme
nt?name=357)

● Week 5:
Programming
Assignment 2
(/noc23_cs108
/progassignme
nt?name=356)

● Week 5:
Programming
Assignment 3
(/noc23_cs108
/progassignme
nt?name=358)

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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Week 6 ()

Substitution Cipher -The science of secrecy (unit?)

Week 6 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-09-06, 23:59 IST.

Assignment submitted on 2023-09-04, 21:43 IST

1) What will be the output of the following code?

1 point

```
import string

def shift(word,value):

    letters = string.ascii_lowercase
    new = ''

    for i in range(len(word)):

        if word[i] in letters:

            index = letters.index(word[i])
            new = new + letters[(index+value)%26]

        else:

            new = new + word[i]

    return new
```

Shift every letter in a given word by value.

unit=124&less on=125)	<input type="radio"/> Shift every letter in a given word by 1. <input type="radio"/> Shift every letter in a given word by 26. <input checked="" type="radio"/> Returns the same word.	
<ul style="list-style-type: none"> ● Substitution Cipher -The science of secrecy 01 (unit? unit=124&less on=126) 	<p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: <i>Shift every letter in a given word by value.</i></p>	
<ul style="list-style-type: none"> ● Substitution Cipher -The science of secrecy 02 (unit? unit=124&less on=127) 	<p>2) In the list L = [4,6,7,4,6,2,1], What is the index of element '7'? 1 point</p> <p><input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3</p>	
<ul style="list-style-type: none"> ● Substitution Cipher -The science of secrecy 03 (unit? unit=124&less on=128) 	<p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: 2</p>	
<ul style="list-style-type: none"> ● Tic Tac Toe - Down the memory Lane (unit? unit=124&less on=129) 	<p>3) Which of the following is true about recursion? 1 point</p> <p><input type="checkbox"/> Recursion always performs better than non-recursive code. <input checked="" type="checkbox"/> Recursive code is easier to debug. <input checked="" type="checkbox"/> The base case is necessary for recursion. <input checked="" type="checkbox"/> Recursive code can be shorter than non-recursive code</p>	
<ul style="list-style-type: none"> ● Tic Tac Toe - Down the memory Lane 01 (unit? unit=124&less on=130) 	<p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: <i>Recursive code is easier to debug.</i> <i>The base case is necessary for recursion.</i> <i>Recursive code can be shorter than non-recursive code</i></p>	
<ul style="list-style-type: none"> ● Tic Tac Toe - Down the memory Lane 02 (unit? unit=124&less on=131) 	<p>4) What will be the output of the following program? 0 points</p> <pre data-bbox="409 1448 1139 1718"> 1 def recursive(num): 2 3 if(num == 1): 4 return 1 5 6 return num*(num-1) </pre>	
<ul style="list-style-type: none"> ● Tic Tac Toe - Down the memory Lane 03 (unit? unit=124&less on=132) 	<p><input type="radio"/> Calculating sum of first n terms. <input checked="" type="radio"/> Calculating product of first n terms. <input type="radio"/> Calculating power of first n terms. <input type="radio"/> Calculating sum of last n terms.</p>	
<ul style="list-style-type: none"> ● Tic Tac Toe - Down the memory Lane 04 (unit? 	<p>Yes, the answer is correct. Score: 0</p> <p>Accepted Answers: <i>Calculating product of first n terms.</i></p>	

- unit=124&less
on=133)
- Tic Tac Toe -
Down the
memory Lane
05 (unit?
unit=124&less
on=134)
- Recursion
(unit?
unit=124&less
on=135)
- Recursion 01
(unit?
unit=124&less
on=136)
- Recursion 02
(unit?
unit=124&less
on=137)
- Recursion 03
(unit?
unit=124&less
on=138)
- Recursion 04
(unit?
unit=124&less
on=139)
- Recursion 05
(unit?
unit=124&less
on=140)
- Recursion 06
(unit?
unit=124&less
on=141)
- Week 6
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=124&less
on=142)
- Quiz: Week 6
: Assignment
(assessment?
name=345)**
- Week 6:
Programming**
- 5) In Caesar cipher, the mediator needs to make maximum of how many trials to break **1 point**
the code?
- 1
 26
 no trial needed
 10
- Yes, the answer is correct.
Score: 1
Accepted Answers:
26
- 6) What is the output of the following program? **0 points**
- ```
def recursive(L):
 return L[-1] * recursive(L[:-1])
print(recursive([1,2,3,4,5,6,7,8,9,10]))
```
- 3628800  
 Runs into an infinite loop  
 55  
 Syntax error
- Yes, the answer is correct.  
Score: 0  
Accepted Answers:  
*Runs into an infinite loop*
- 7) What's the correct code for Binary search? **0 points**
- ```
def Binary(L, find, start, end):
    mid = int((start+end)/2)
    if(start < end):
        if(L[end] == find):
            return end
        else:
            return -100
    if(L[mid] == find):
        return mid
    elif(find > L[mid]):
        return Binary(L, find, mid + 1, end)
    else:
        return Binary(L, find, start, mid-1)
```

Assignment 1
(/noc23_cs108
/progassignme
nt?name=360)

Week 6:
Programming
Assignment 2
(/noc23_cs108
/progassignme
nt?name=361)

Week 6:
Programming
Assignment 3
(/noc23_cs108
/progassignme
nt?name=362)

Week 7 ()

Week 8 ()

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```
def Binary(L,find, start, end):  
  
    mid = int((start+end)/2)  
  
    if(start == end):  
        if(L[end] == find):  
            return end  
        else:  
            return -100  
  
    if(L[mid] == find):  
        return mid  
  
    elif(find > L[mid]):  
        return Binary(L, find, start, mid - 1)  
  
    else:  
        return Binary(L, find, mid + 1, end)
```

```
def Binary(L,find, start, end):  
  
    mid = int((start+end)/2)  
  
    if(start == end):  
        if(L[end] == find):  
            return end  
        else:  
            return -100  
  
    if(L[mid] == find):  
        return mid  
  
    elif(find > L[mid]):  
        return Binary(L, find, mid + 1, end)  
  
    else:  
        return Binary(L, find, start, mid-1)
```

```

def Binary(L,find, start, end):

    mid = int((start+end)/2)

    if(start >= end):
        if(L[end] == find):
            return end
        else:
            return -100

    if(L[mid] != find):
        return mid

    elif(find > L[mid]):
        return Binary(L, find, mid + 1, end)

    else:
        return Binary(L, find, start, mid-1)

```

Yes, the answer is correct.

Score: 0

Accepted Answers:

```

def Binary(L,find, start, end):

    mid = int((start+end)/2)

    if(start == end):
        if(L[end] == find):
            return end
        else:
            return -100

    if(L[mid] == find):
        return mid

    elif(find > L[mid]):
        return Binary(L, find, mid + 1, end)

    else:
        return Binary(L, find, start, mid-1)

```

8) Which of the following is TRUE about MIN-MAX strategy?

1 point

- Maximize the chances of your winning and minimize the chances of the opponent winning
- The game with min-max strategy can never be drawn
- Minimize the chances of your winning and maximize the chances of the opponent winning
- All the above are true

Yes, the answer is correct.

Score: 1

Accepted Answers:

Maximize the chances of your winning and minimize the chances of the opponent winning

9) A program that is written recursively cannot be written in a non-recursive manner. **1 point**

True

False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

10) what will be the output of the following program?

1 point

```
1  def recursive(num):
2
3      if(num==1):
4          print('*')
5          return
6
7      if(num%2 == 0):
8          print('*'*num)
9          recursive(num-1)
10         return
11     else:
12         recursive(num-1)
13         return
14
15 recursive(10)
```

**

*

*

Runs into infinite loop

**

*

Yes, the answer is correct.

Score: 1

Accepted Answers:

**

*

X



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Week 7 ()

● Snakes and Ladders - Not

Week 7 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-09-13, 23:59 IST.

Assignment submitted on 2023-09-10, 23:14 IST

1) Values of CSV files are separated by?

1 point

- Commas
- Colons
- Semi-colons
- Slash

Yes, the answer is correct.

Score: 1

Accepted Answers:

Commas

on the Board
(unit?
unit=143&less
on=144)

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

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

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

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

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

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

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

● Spiral
Traversing -
Let's Animate -
Part 01 (unit?

2) What is the output of the following code?

1 point

```
def spiral(row, column, arr) :  
    rowStart = 0; columnStart = 0  
  
    while (rowStart < row and columnStart < column) :  
  
        for i in range(rowStart, row) :  
            print(arr[i][columnStart], end = " ")  
  
        columnStart = columnStart + 1  
  
        for i in range(columnStart, column) :  
            print( arr[row - 1][i], end = " ")  
  
        row = row - 1  
  
        if (rowStart < row) :  
            for i in range(row - 1, rowStart - 1, -1) :  
                print(arr[i][column - 1], end = " ")  
            column = column - 1  
  
        if (columnStart < column) :  
            for i in range(column - 1, columnStart - 1, -1) :  
                print( arr[rowStart][i], end = " ")  
  
            rowStart = rowStart + 1  
  
matrix = [ [ 1, 2, 3 ],  
           [ 5, 6, 7 ],  
           [ 9, 10, 11 ] ]  
  
row = 3  
column= 3  
  
spiral(row, column, matrix)
```

- 1, 2, 3, 7, 11, 10, 9, 5, 6
- 1, 2, 3, 5, 6, 7, 9, 10, 11
- 1, 5, 9, 10, 11, 7, 3, 2, 6
- 1, 5, 9, 2, 6, 10, 3, 7, 11

Yes, the answer is correct.

Score: 1

Accepted Answers:

1, 5, 9, 10, 11, 7, 3, 2, 6

unit=143&less
on=152)

● Spiral

Traversing -
Let's Animate -
Part 02 (unit?
unit=143&less
on=153)

● Spiral

Traversing -
Let's Animate -
Part 03 (unit?
unit=143&less
on=154)

● Spiral

Traversing -
Let's Animate -
Part 04 (unit?
unit=143&less
on=155)

● Spiral

Traversing -
Let's Animate -
Part 05 (unit?
unit=143&less
on=156)

● Spiral

Traversing -
Let's Animate -
Part 06 (unit?
unit=143&less
on=157)

● Spiral

Traversing -
Let's Animate -
Part 07 (unit?
unit=143&less
on=158)

● GPS - Track
the route (unit?
unit=143&less
on=159)

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

● GPS - Track
the route - Part
02 (unit?

3) What will be the output of the following code? 1 point

```
import turtle

pen = turtle.Turtle()

for i in range(3):

    pen.forward(60)
    pen.right(120)

turtle.done()
```

- Scalar triangle
- Right angle triangle
- Equilateral triangle
- Isosceles triangle

Yes, the answer is correct.

Score: 1

Accepted Answers:

Equilateral triangle

4) Which of the following program will draw a hexagon? 1 point

```
1 import turtle
2
3 pen = turtle.Turtle()
4
5 for i in range(3):
6
7     pen.right(60)
8     pen.forward(60)
9
10    turtle.done()
```

-
-

unit=143&less
on=161)

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

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

● Week 7
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=143&less
on=164)

● Quiz: Week 7
: Assignment
(assessment?
name=346)

● Week 7:
Programming
Assignment 1
(/noc23_cs108
/progassignme
nt?name=363)

● Week 7:
Programming
Assignment 2
(/noc23_cs108
/progassignme
nt?name=364)

● Week 7:
Programming
Assignment 3
(/noc23_cs108
/progassignme
nt?name=365)

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

```
1 import turtle
2
3 pen = turtle.Turtle()
4
5 for i in range(3):
6
7     pen.right(60)
8     pen.forward(60)
9     pen.right(60)
10    pen.forward(60)
11
12 turtle.done()
```

```
1 import turtle
2
3 pen = turtle.Turtle()
4
5 for i in range(6):
6
7     pen.right(30)
8     pen.forward(60)
9
10 turtle.done()
```

```
1 import turtle
2
3 pen = turtle.Turtle()
4
5 for i in range(6):
6
7     pen.right(30)
8     pen.forward(30)
9
10 turtle.done()
```

Yes, the answer is correct.

Week 12 ()**Text****Transcripts ()****Download Videos ()****Books ()****Problem Solving Session - July 2023 ()**

Score: 1

Accepted Answers:

```
1 import turtle
2
3 pen = turtle.Turtle()
4
5 for i in range(3):
6
7     pen.right(60)
8     pen.forward(60)
9     pen.right(60)
10    pen.forward(60)
11
12 turtle.done()
```

- 5) Which of the following library is used to render data on google maps?

1 point

- gplot
- googlemaps
- gmplot
- gmeplot

Yes, the answer is correct.

Score: 1

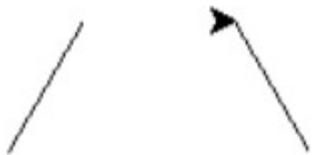
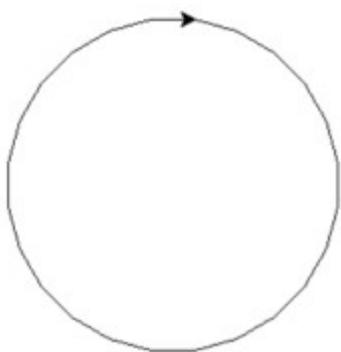
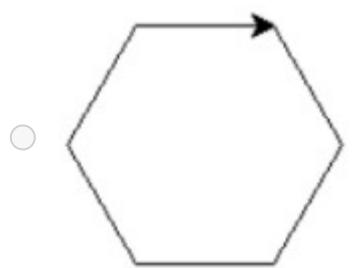
Accepted Answers:

gmplot

- 6) What is the output of the following code?

1 point

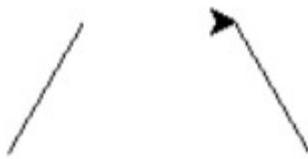
```
1 import turtle
2
3 pen = turtle.Turtle()
4
5 for i in range(3):
6
7     pen.right(60)
8     pen.forward(60)
9     pen.penup()
10    pen.right(60)
11    pen.forward(60)
12    pen.pendown()
13
14
15 turtle.done()
```



Yes, the answer is correct.

Score: 1

Accepted Answers:



7) Which turtle command is equivalent to lifting up a pen.

1 point

- penlift()
- penup()
- uppen()
- penremove()

Yes, the answer is correct.

Score: 1

Accepted Answers:

penup()

8) Why do we use functions?

1 point

- To improve readability.
- To reuse code blocks.
- For the ease of code debugging.
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

9) Library used to import images?

1 point

- PIL
- Imageview
- IMG
- image

Yes, the answer is correct.

Score: 1

Accepted Answers:

PIL

10) In snakes and ladder what can be the ways to track ladders and snakes?

1 point

- Maintain a dictionary with snakes or ladder number blocks as keys.
- Using the if condition to check on every number.

- Both A and B.
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Both A and B.

X



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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy Of Computing Using Python
(course)

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Course outline

How does an NPTEL online course work? ()

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Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 8 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-09-20, 23:59 IST.

Assignment submitted on 2023-09-19, 19:52 IST

1) What is the correct initialisation of tuples?

1 point

- Dates = [12,23,3,4]
- Dates = (12,23,3,4)
- Dates = {12,23,3,4}
- Both B and C

Yes, the answer is correct.

Score: 1

Accepted Answers:

Dates = (12,23,3,4)

2) What operations can be done on tuples?

1 point

- Tuples are appendable.
- We can delete a value from tuples.
- Both A and B.
- We can count the number of instances of an element.

Yes, the answer is correct.

Score: 1

Accepted Answers:

We can count the number of instances of an element.

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

1 point

- Tuples- Python Data Structure
(unit?
unit=165&less
on=166)

- Lottery Simulation - Profit or Loss
(unit?
unit=165&less
on=167)

- Lottery Simulation - Profit or Loss - Part 01 (unit?
unit=165&less
on=168)

- Lottery Simulation - Profit or Loss - Part 02 (unit?
unit=165&less
on=169)

- Lottery Simulation - Profit or Loss - Part 03 (unit?
unit=165&less
on=170)

- Lottery Simulation - Profit or Loss - Part 04 (unit?
unit=165&less
on=171)

- Lottery Simulation - Profit or Loss - Part 05 (unit?
unit=165&less
on=172)

- Lottery Simulation - Profit or Loss - Part 06 (unit?
unit=165&less
on=173)

- Image Processing - Enhance your images (unit?)

```
t = (1,2,3,4,5)

for i in range(-1,-len(t), -1):
    print(t[i])
```

- 1,2,3,4,5
- 5,4,3,2,1
- 5,4,3,2
- 1,2,3,4

Yes, the answer is correct.

Score: 1

Accepted Answers:

5,4,3,2

4) What will be the output of the following code? 1 point

```
1 word = 'facebook'
2 new = ''
3
4 for w in word:
5     i = ord(w)
6
7     j = ((( i+26 ) - 97 ) % 26 ) + 97
8
9     new = new + chr(j)
10
11 print(new)
```

- facebook
- gbdfcpl
- ezb dannj
- ytvxuhhd

Yes, the answer is correct.

Score: 1

Accepted Answers:

facebook

5) When the following program will clap? 1 point

unit=165&less
on=174)

● Image
Processing -
Enhance your
images - Part
01 (unit?
unit=165&less
on=175)

● Image
Processing -
Enhance your
images - Part
02 (unit?
unit=165&less
on=176)

● Image
Processing -
Enhance your
images - Part
03 (unit?
unit=165&less
on=177)

● Anagrams
(unit?
unit=165&less
on=178)

● Anagrams -
Part 01 (unit?
unit=165&less
on=179)

● Anagrams -
Part 02 (unit?
unit=165&less
on=180)

● Anagrams -
Part 03 (unit?
unit=165&less
on=181)

● Facebook
Sentiment
Analysis (unit?
unit=165&less
on=182)

● Facebook
Sentiment
Analysis - Part
01 (unit?
unit=165&less
on=183)

```
1     print('Enter a letter between a-z')
2
3     player1 = str(input())
4     player2 = str(input())
5
6     while(True):
7
8         if(ord(player1.lower())+1 == ord(player2.lower())):
9             print('clap')
10            break
11        else:
12            player1 = str(input())
13            player2 = str(input())
14
```

- When both players will enter the same letters.
- When player 2 will enter the next letter with respect to player 1.
- When player 1 will enter the next letter with respect to player 2.
- It will never clap.

Yes, the answer is correct.

Score: 1

Accepted Answers:

When player 2 will enter the next letter with respect to player 1.

- 6) Which statement is correct about the following program?

1 point

- Facebook Sentiment Analysis - Part 02 (unit? unit=165&less on=184)
 - Facebook Sentiment Analysis - Part 03 (unit? unit=165&less on=185)
 - Facebook Sentiment Analysis - Part 04 (unit? unit=165&less on=186)
 - Week 8 Feedback Form: The Joy of Computing using Python (unit? unit=165&less on=187)
 - Quiz: Week 8 : Assignment (assessment? name=347)**
-

- Week 8: Programming Assignment 1 (/noc23_cs108 /progassignment?name=366)
- Week 8: Programming Assignment 2 (/noc23_cs108 /progassignment?name=367)
- Week 8: Programming Assignment 3 (/noc23_cs108 /progassignment?name=368)

Week 9 ()

```

1 import random
2 import matplotlib.pyplot as plt
3
4 l = []
5 count = 0
6
7 for i in range(10):
8     guess = random.randint(1, 10)
9     pick = random.randint(1, 10)
10
11    if(guess!=pick):
12        count+=1
13        l.append(count)
14    else:
15        count-=1
16        l.append(count)
17
18 plt.plot(l)
19 plt.show()

```

- The graph will go up when guess and pick are the same.
 The graph will go down when guess and pick are the same.
 The graph will go up when guess and pick are not the same.
 Both B and C

Yes, the answer is correct.
Score: 1

Accepted Answers:
Both B and C

7) What does NLTK do?

1 point

- 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:
Helps to work with human language data.

8) What is the output of the following code?

1 point

[Week 10 \(\)](#)

[Week 11 \(\)](#)

[Week 12 \(\)](#)

[Text](#)

[Transcripts \(\)](#)

[Download Videos \(\)](#)

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Problem Solving Session - July 2023 ()

```
1 string = 'hey!there'
2
3 a = sorted(string)
4 a.reverse()
5
6 print(a)
```

- ['!', 'e', 'e', 'e', 'h', 'h', 'r', 't', 'y']
- ['h', 'e', 'y', '!', 't', 'h', 'e', 'r', 'e']
- ['y', 't', 'r', 'h', 'h', 'e', 'e', 'e', '!']
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

['y', 't', 'r', 'h', 'h', 'e', 'e', 'e', '!']

9) While converting an image into black and white during enhancement you cannot convert it back into a colored image. **1 point**

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

10) How does vader help in sentiment analysis? **1 point**

- It calculates whether the statement is negative, positive or neutral.
- It takes care of the intensity of a statement.
- Both A and B
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Both A and B

X



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Course outline

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Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-09-27, 23:59 IST.

Assignment submitted on 2023-09-26, 09:51 IST

1) How can we identify which book is written by which author? 1 point

- By matching handwriting.
- By analyzing word length with previous books.
- By analyzing the number of pages in a book.
- By analyzing the book's preface.

Yes, the answer is correct.

Score: 1

Accepted Answers:

By analyzing word length with previous books.

2) How can a list L be transformed into a tuple? 1 point

- tuple(L)
- tup(L)
- L(tuple)
- L(tup)

Yes, the answer is correct.

Score: 1

Accepted Answers:

tuple(L)

3) Will the following piece of code always return True? 1 point

Week 9 ()

- Natural
Language
Processing -
Author
Stylometry
(unit?
unit=188&less
on=189)

- Natural
Language
Processing -
Author
Stylometry -
Part 01 (unit?
unit=188&less
on=190)

- Natural
Language
Processing -
Author
Stylometry -
Part 02 (unit?
unit=188&less
on=191)

- Natural
Language
Processing -
Author
Stylometry -
Part 03 (unit?
unit=188&less
on=192)

- Natural
Language
Processing -
Author
Stylometry -
Part 04 (unit?
unit=188&less
on=193)

- Natural
Language
Processing -
Author
Stylometry -
Part 05 (unit?
unit=188&less
on=194)

- Natural
Language

```
G = nx.gnp_random_graph(10, 0.5)
print(nx.is_connected(G))
```

- True
 False

Yes, the answer is correct.

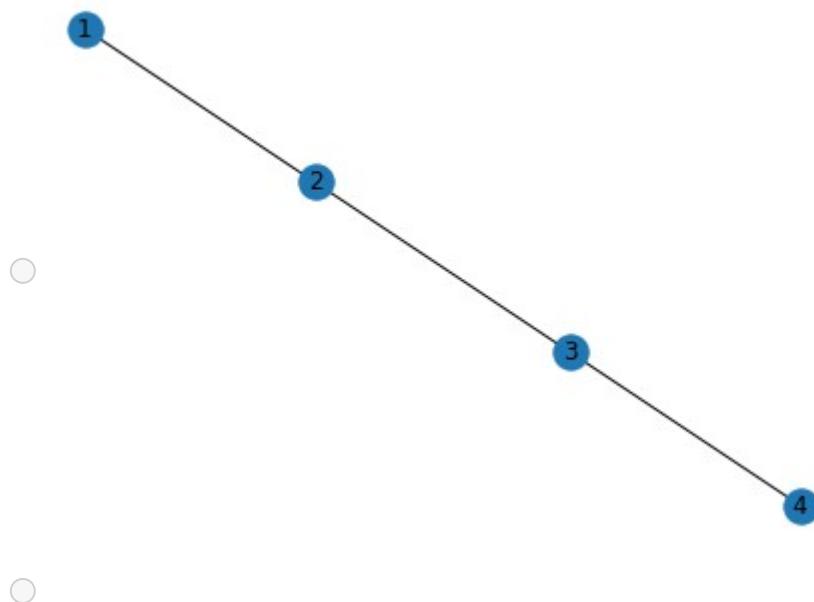
Score: 1

Accepted Answers:

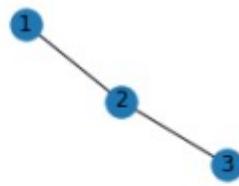
False

4) What is the output of the following code? 1 point

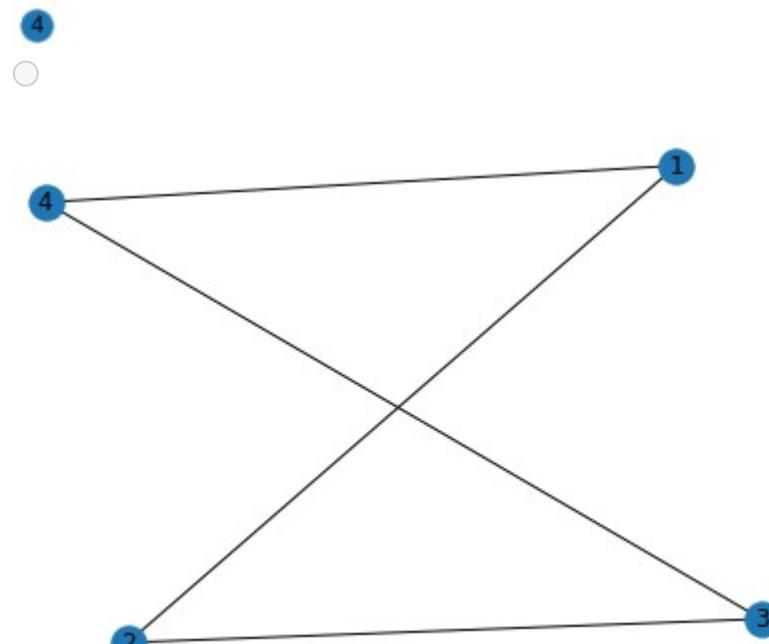
```
1 import networkx as nx
2 import matplotlib.pyplot as plt
3
4
5 G = nx.Graph()
6 G.add_nodes_from([1, 2, 3, 4])
7 G.add_edges_from([(1, 2), (2, 1), (2, 3), (3, 4), (4, 1), (3, 1)])
8
9 nx.draw(G, with_labels=True)
10 plt.show()
```



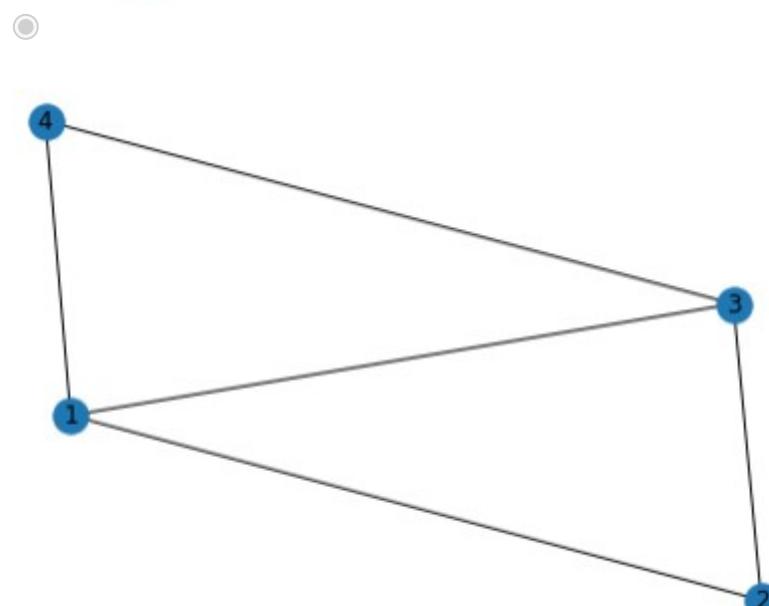
Processing -
Author
Stylometry -
Part 06 (unit?
unit=188&less
on=195)



• Natural
Language
Processing -
Author
Stylometry -
Part 07 (unit?
unit=188&less
on=196)



• Natural
Language
Processing -
Author
Stylometry -
Part 09 (unit?
unit=188&less
on=198)



• Introduction to
Networkx -
Part 01 (unit?
unit=188&less
on=200)

• Introduction to
Networkx -
Part 02 (unit?
unit=188&less
on=201)

• Six Degrees of
Separation :
Meet your
favourites

Yes, the answer is correct.

(unit?
unit=188&less
on=202)

- Six Degrees of Separation :
Meet your favourites -
Part 01 (unit?
unit=188&less
on=203)
- Six Degrees of Separation :
Meet your favourites -
Part 02 (unit?
unit=188&less
on=204)

- Six Degrees of Separation :
Meet your favourites -
Part 03 (unit?
unit=188&less
on=205)

- Area Calculation -
Don't Measure (unit?
unit=188&less
on=206)

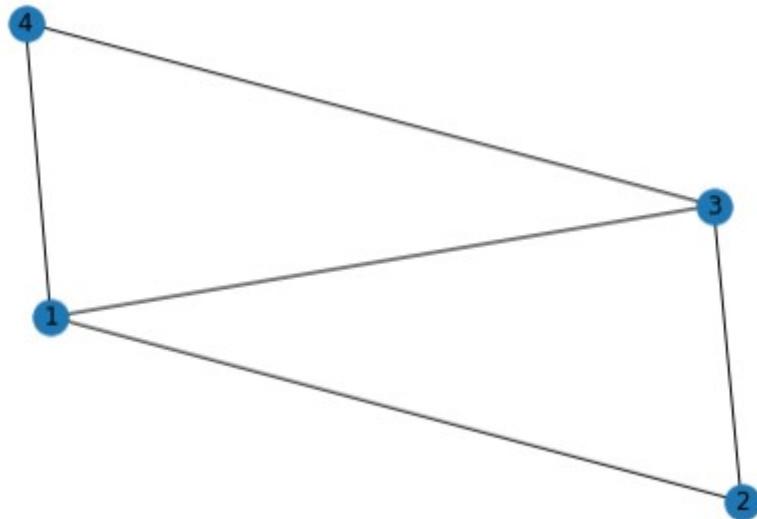
- Area Calculation -
Don't Measure - Part 01 (unit?
unit=188&less
on=207)

- Area Calculation -
Don't Measure - Part 02 (unit?
unit=188&less
on=208)

- Area Calculation -
Don't Measure - Part 03 (unit?
unit=188&less
on=209)

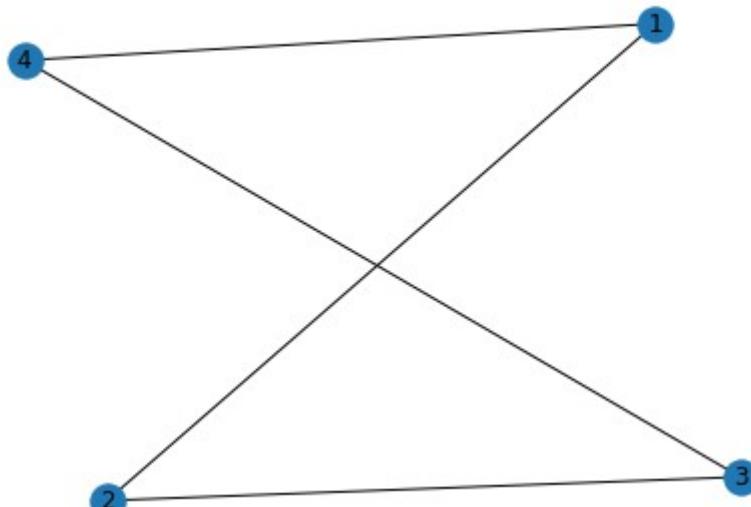
- Area Calculation -
Don't Measure - Part 04 (unit?

Score: 1
Accepted Answers:



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

1 point



- 4
- 5
- 3
- 2

Yes, the answer is correct.

Score: 1

Accepted Answers:
4

6) How many neighbors does node 3 have?

1 point

unit=188&less
on=210)

Area
Calculation -
Don't Measure
- Part 05 (unit?
unit=188&less
on=211)

Area
Calculation -
Don't Measure
- Part 06 (unit?
unit=188&less
on=212)

Quiz: Week 9
Assignment
(assessment?
name=348)

Week 9:
Programming
Assignment 1
(/noc23_cs108
/progassignme
nt?name=369)

Week 9:
Programming
Assignment 2
(/noc23_cs108
/progassignme
nt?name=370)

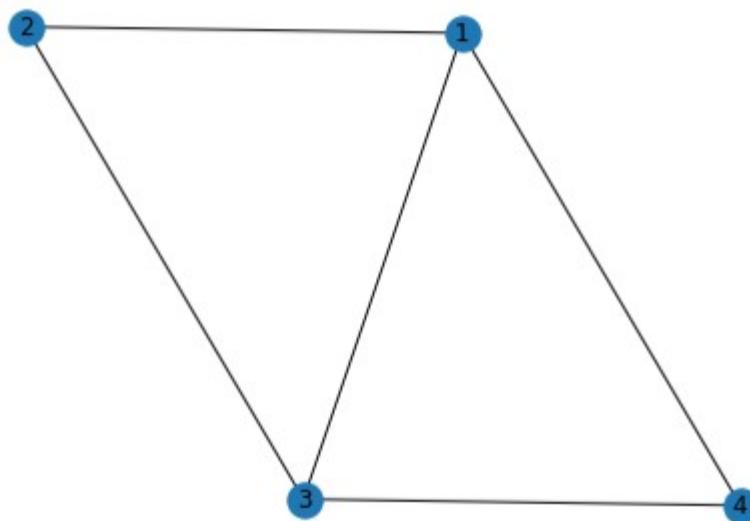
Week 9:
Programming
Assignment 3
(/noc23_cs108
/progassignme
nt?name=371)

Week 9
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=188&less
on=213)

Week 10 ()

Week 11 ()

Week 12 ()



- 2
- 4
- 1
- 3

Yes, the answer is correct.

Score: 1

Accepted Answers:

3

7) In which of the following ways can we create a string in python?

1 point

- By using single quotes.
- By using double-quotes.
- By using triple-quotes.
- All of the above.

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above.

8) Which of the following is not true about Stylometry Analysis?

1 point

- It is quantitative study of literature style
- It is based on the observation that the authors tend to write in relatively consistent and recognisable ways
- any two people may have same vocabulary
- It is a tool to study variety of questions involving style of writing

Yes, the answer is correct.

Score: 1

Accepted Answers:

any two people may have same vocabulary

9) A complete graph will have __ degree of separation

1 point

- 1

Text

Transcripts ()

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Problem Solving Session - July 2023 ()

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

1

10) Networkx in python is used for

1 point

- Making networks
- Analyzing networks
- Visualizing networks
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

X



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Course outline

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week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 10 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-10-04, 23:59 IST.

Assignment submitted on 2023-10-03, 08:46 IST

1) What is the output of the following code?

1 point

```
1 s = 'Hello Everyone'
2 print(s.lower())
```

- HELLO EVERYONE
- Hello Everyone
- helloeveryone
- hello everyone

Yes, the answer is correct.

Score: 1

Accepted Answers:

hello everyone

2) In flames game when we will stop the iteration over FLAMES?

1 point

- When only one letter is left in flames.
- Only once.
- Only the letter remaining times.
- None of the above.

Yes, the answer is correct.

Week 9 ()**Week 10 ()**

• FLAMES - Part 01 (unit? unit=214&less on=215)

• FLAMES - Part 02 (unit? unit=214&less on=216)

• FLAMES - Part 03 (unit? unit=214&less on=217)

• FLAMES - Part 04 (unit? unit=214&less on=218)

• FLAMES - Part 05 (unit? unit=214&less on=219)

• FLAMES - Part 06 (unit? unit=214&less on=220)

• Data Compression - Part 01 (unit? unit=214&less on=221)

• Data Compression - Part 02 (unit? unit=214&less on=222)

• Data Compression - Part 03 (unit? unit=214&less on=223)

• Data Compression - Part 04 (unit? unit=214&less on=224)

Score: 1

Accepted Answers:

When only one letter is left in flames.

3) Output of the following code will be?

1 point

```
1     a = ['', 'h', 'e', 'l', '', 'l', 'o']
2     print(''.join(a))
```

- hello
- h.e.l.l.o
- .h.e.l.l.o
- .h.e.l.l.o

Yes, the answer is correct.

Score: 1

Accepted Answers:

.h.e.l.l.o

4) Which code snippet represents replacing all vowels with '_' in a string?

1 point

```
1     s='The joy of Computing'
2
3     s.replace('a', '_')
4     s.replace('e', '_')
5     s.replace('i', '_')
6     s.replace('i', '_')
7     s.replace('o', '_')
8     s.replace('u', '_')
9
10    print(s)
```

-

```
1     s='The joy of Computing'
2
3     s.replace('_', 'a')
4     s.replace('_', 'e')
5     s.replace('_', 'i')
6     s.replace('_', 'o')
7     s.replace('_', 'u')
8
9     print(s)
```

-

● Data Compression - Part 05 (unit? unit=214&less on=225)

● Quiz: Week 10 : Assignment (assessment? name=349)

● Week 10: Programming Assignment 1 (/noc23_cs108 /progassignment?name=372)

● Week 10: Programming Assignment 2 (/noc23_cs108 /progassignment?name=373)

● Week 10: Programming Assignment 3 (/noc23_cs108 /progassignment?name=374)

● Week 10 Feedback Form: The Joy of Computing using Python (unit? unit=214&less on=226)

Week 11 ()

Week 12 ()

Text Transcripts ()

Download Videos ()

Books ()

Problem Solving

```
1 s='The joy of Computing'
2
3 s = s.replace('_', 'a')
4 s = s.replace('_', 'e')
5 s = s.replace('_', 'i')
6 s = s.replace('_', 'o')
7 s = s.replace('_', 'u')
8
9 print(s)
```

```
1 s='The joy of Computing'
2
3 s = s.replace('a', '_')
4 s = s.replace('e', '_')
5 s = s.replace('i', '_')
6 s = s.replace('o', '_')
7 s = s.replace('u', '_')
8
9 print(s)
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
1 s='The joy of Computing'
2
3 s = s.replace('a', '_')
4 s = s.replace('e', '_')
5 s = s.replace('i', '_')
6 s = s.replace('o', '_')
7 s = s.replace('u', '_')
8
9 print(s)
```

5) What will be the output of the following list slicing.

1 point

```
1 s = 'The Joy of Computing'
2
3 print(s[3:12])
```

- 'Joy of C'
- 'Joy of C'
- 'Joy of Co'
- 'Joy of Co'

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Yes, the answer is correct.

Score: 1

Accepted Answers:

'Joy of C'

6) What does the following code represent?

1 point

```
1 s = 'Sheher mein'
2 a = 'aeiouAEIOU'
3 for i in range(len(s)):
4     if(s.index(s[i])%2 == 0):
5         print(i)
6         if(s[i] in a):
7             s = s.replace(s[i], '_')
8
9
10 print(s)
```

- Replacing all letters at odd index with '_'.
- Replacing all vowels at odd index with '_'.
- Replacing all vowels at even index with '_'.
- Replacing all letters at even index with '_'.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Replacing all vowels at even index with '_'.

7) What will be the output of the following code?

1 point

```
1 import numpy as np
2
3 b = np.array([[1,2],[3,4]])
4
5 print(np.sum(b, axis = 1))
```

- [4 6]
- [3 7]
- [3 4]
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

[3 7]

8) What is the correct way to display the transpose of a matrix?

1 point

```
import numpy as np  
  
☐ b = np.array([[1,2],[3,4]])  
  
print(b.T())
```



```
import numpy as np  
  
b = np.array([[1,2],[3,4]])  
  
print(b.transpose())
```



```
import numpy as np  
  
b = np.array([[1,2],[3,4]])  
  
print(b.T)
```



```
import numpy as np  
  
b = np.array([[1,2],[3,4]])  
  
print(b.transpose)
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
import numpy as np  
  
b = np.array([[1,2],[3,4]])  
  
print(b.transpose())
```

```
import numpy as np  
  
b = np.array([[1,2],[3,4]])  
  
print(b.T)
```

9) Are Lossy and Lossless compressions the same?

1 point

- Yes, they are identical.
- No, they are different.
- It depends on the context.
- Not enough information provided.

Yes, the answer is correct.

Score: 1

Accepted Answers:

No, they are different.

10) What is the shape of the following numpy array? 1 point

`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)`

11) What will be the output of the following code? 1 point

```
1 import numpy as np
2
3 a = np.array([[8,9,20],[10,31,22]])
4 b = np.array([[1,2,3],[4,5,6]])
5
6 print(a-b)
```

- [[6 6 6]
[6 6 6]]
- [[-7 -7 -17]
[-6 -26 -16]]
- [[7 7 17]
[6 26 16]]
- [[9 11 23]
[14 36 28]]

Yes, the answer is correct.

Score: 1

Accepted Answers:

`[[7 7 17]
[6 26 16]]`

X



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2022d1r013@mietjammu.in ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » The Joy Of Computing Using Python
(course)

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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 11 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-10-11, 23:59 IST.

Assignment submitted on 2023-10-07, 15:22 IST

Note: use the following convention for the rest of the assignment.

dd - date
mm - month
yy - year
hh - hour
MM - minutes
ss - seconds
ms - milli-seconds

1) Which library is used for browser automation?

1 point

- nltk
- numpy
- selenium
- PIL

Yes, the answer is correct.

Score: 1

Accepted Answers:
selenium

2) What the given statement will return?

1 point

time.time()

- Time in seconds.

Week 9 ()

- Current date and time.
- Time in minutes
- The current date, time and year

Week 10 ()

Yes, the answer is correct.

Score: 1

Accepted Answers:

Time in seconds.

- 3) Identify the library that can be used to get all timezones:

1 point

- selenium
- calender
- nltk
- pytz

Yes, the answer is correct.

Score: 1

Accepted Answers:

pytz

- 4) The output of the following code will be?

1 point

```
1 from datetime import datetime as dt
2
3 print(dt.now())
```

- Date and time in dd- mm-yy hh:MM:ss:ms respectively.
- Time and date in hh:MM:ss:ms dd- mm-yy respectively.
- Date and time in mm-dd-yy hh:MM:ss:ms respectively.
- Date and time in yy- mm-dd hh:MM:ss:ms respectively.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Date and time in yy- mm-dd hh:MM:ss:ms respectively.

- 5) We can use the selenium web driver for different browsers.

1 point

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

- 6) What will be the output of the following code?

1 point

● Browser Automation
Watsapp using Python - Part 01 (unit? unit=227&less on=228)

● Browser Automation
Watsapp using Python - Part 02 (unit? unit=227&less on=229)

● Browser Automation
Watsapp using Python - Part 03 (unit? unit=227&less on=230)

● Browser Automation
Watsapp using Python - Part 04 (unit? unit=227&less on=231)

● Fun with Calendar - Part 01 (unit? unit=227&less on=232)

● Fun with Calendar - Part 02 (unit? unit=227&less on=233)

● Fun with Calendar - Part 03 (unit? unit=227&less on=234)

● Fun with Calendar -

Part 04 (unit?
unit=227&less
on=235)

● Fun with
Calendar -
Part 05 (unit?
unit=227&less
on=236)

● Fun with
Calendar -
Part 06 (unit?
unit=227&less
on=237)

● Fun with
Calendar -
Part 07 (unit?
unit=227&less
on=238)

● Fun with
Calendar -
Part 08 (unit?
unit=227&less
on=239)

● Fun with
Calendar -
Part 09 (unit?
unit=227&less
on=240)

● Fun with
Calendar -
Part 10 (unit?
unit=227&less
on=241)

● Fun with
Calendar -
Part 11 (unit?
unit=227&less
on=242)

● Fun with
Calendar -
Part 12 (unit?
unit=227&less
on=243)

● Week 11
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=227&less
on=244)

```
1 import pytz
2 from datetime import datetime as dt
3
4 zone = pytz.all_timezones
5
6 for i in range(len(zone)):
7     print(dt.now(pytz.timezone(zone[i])))
```

- Print the current date and time of all time zones.
- Print the current date and time of specific time zones.
- Print the current date of all time zones.
- Print the current date of some specific time zones.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Print the current date and time of all time zones.

7) What will be the output if the system date is 10 December 2021(Friday)?

1 point

```
2 from datetime import datetime as dt
3
4 day = dt.today()
5
6 print(day.weekday())
```

- 5
- 3
- 4
- error

Yes, the answer is correct.

Score: 1

Accepted Answers:

4

8) Which statement will return the calendar for a whole year?

1 point

- calendar.month(year)
- calendar(year)
- calendar.prcal(year)
- calendar.year(year)

Yes, the answer is correct.

Score: 1

Accepted Answers:

calendar.prcal(year)

9) By which statement can we come out of the loop?

1 point

- continue

**Quiz: Week 11
Assignment
(assessment?
name=350)**

**Week 11:
Programming
Assignment 1
(/noc23_cs108
/progassignme
nt?name=375)**

**Week 11:
Programming
Assignment 2
(/noc23_cs108
/progassignme
nt?name=376)**

**Week 11:
Programming
Assignment 3
(/noc23_cs108
/progassignme
nt?name=377)**

- leave
- catch
- break

Yes, the answer is correct.

Score: 1

Accepted Answers:

break

10) How to check for the leap year?

1 point

- calendar.leap(year)
- calendar.is_leap(year)
- calendar.isleap(year)
- calendar.checkleap(year)

Yes, the answer is correct.

Score: 1

Accepted Answers:

calendar.isleap(year)

Week 12 ()

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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 12 : Assignment

The due date for submitting this assignment has passed.

Due on 2023-10-18, 23:59 IST.

Assignment submitted on 2023-10-09, 10:51 IST

1) What is a sink?

1 point

- A node with no incoming edges.
- A node with maximum incoming edges.
- A node with maximum outgoing edges.
- A node with no outgoing edges.

Yes, the answer is correct.

Score: 1

Accepted Answers:

A node with no outgoing edges.

2) What should we do when encountering a sink in the case of page rank algorithm? 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.

3) In the page rank algorithm

1 point

Week 9 ()

- We randomly travel from node to node without any relationship.
- We randomly travel from node to neighbor node.
- The maximum visited node will be the leader.
- B and C
- A and C

Week 10 ()**Week 11 ()****Week 12 ()**

● Page Rank -
How does
Google Work ?
- Part 01 (unit?
unit=245&less
on=246)

● Page Rank -
How does
Google Work ?
- Part 02 (unit?
unit=245&less
on=247)

● Page Rank -
How does
Google Work ?
- Part 03 (unit?
unit=245&less
on=248)

● Page Rank -
How does
Google Work ?
- Part 04 (unit?
unit=245&less
on=249)

● Page Rank -
How does
Google Work ?
- Part 05 (unit?
unit=245&less
on=250)

● Page Rank -
How does
Google Work ?
- Part 06 (unit?
unit=245&less
on=251)

● Page Rank -
How does
Google Work ?
- Part 07 (unit?
unit=245&less
on=252)

Yes, the answer is correct.

Score: 1

Accepted Answers:

B and C

4) If we perform the page rank algorithm on the web as a graph, which of the following **1 point** is true?

- Websites are nodes and hyperlinks in websites are edges.
- Hyperlinks in websites are nodes and websites are edges.
- Websites will work as nodes and edges.
- Hyperlinks will work as nodes and edges.

Yes, the answer is correct.

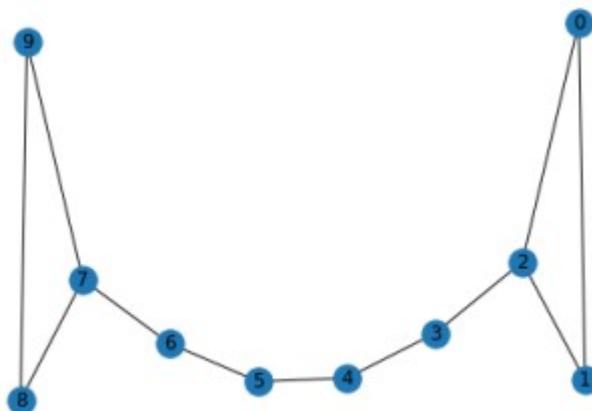
Score: 1

Accepted Answers:

Websites are nodes and hyperlinks in websites are edges.

5) Identify the type of graph:

1 point



- Triangle Graph
- Directed Graph
- Barbell Graph
- Wheel graph

Yes, the answer is correct.

Score: 1

Accepted Answers:

Barbell Graph

6) Which of the following python function will return random floating point number between 0 and 1?

1 point

- random.float()

- Page Rank -
How does
Google Work ?
- Part 08 (unit?
unit=245&less
on=253)

- random.randomfloat()
 random.frandom()
 random.random()

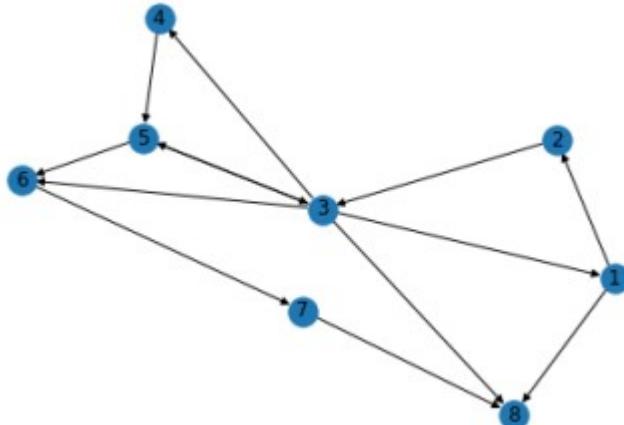
Yes, the answer is correct.
Score: 1

Accepted Answers:
random.random()

- Page Rank -
How does
Google Work ?
- Part 09 (unit?
unit=245&less
on=254)

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

1 point



- 4
 5
 3
 6

Yes, the answer is correct.
Score: 1

Accepted Answers:
5

- Page Rank -
How does
Google Work ?
- Part 10 (unit?
unit=245&less
on=255)

- Page Rank -
How does
Google Work ?
- Part 11 (unit?
unit=245&less
on=256)

- Page Rank -
How does
Google Work ?
- Part 12 (unit?
unit=245&less
on=257)

- Page Rank -
How does
Google Work ?
- Part 13 (unit?
unit=245&less
on=258)

- Page Rank -
How does
Google Work ?
- Part 14 (unit?
unit=245&less
on=259)

- Page Rank -
How does
Google Work ?
- Part 15 (unit?
unit=245&less
on=260)

- Page Rank -
How does
Google Work ?

8) In the page rank algorithm the leader is decided by?

1 point

- A node(person) with maximum number of outgoing edges.
 A node(person) with maximum number of incoming edges.
 A node(person) which is visited maximum times.
 Can not decide.

Yes, the answer is correct.
Score: 1

Accepted Answers:
A node(person) which is visited maximum times.

9) Which of the following is true about directed graphs?

1 point

- One can come back and forth from one node to another using a single edge.
 One can only go forward from one node to another using a single edge.
 One can go to any node from one node using one edge.
 None of the above.

- Part 16 (unit?
unit=245&less
on=261)

● Collatz
Conjecture -
Part 01 (unit?
unit=245&less
on=262)

● Collatz
Conjecture -
Part 02 (unit?
unit=245&less
on=263)

● JOC
Conclusion
(unit?
unit=245&less
on=264)

● Week 12
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=245&less
on=265)

● Quiz: Week
12 :
Assignment
(assessment?
name=351)

● Week 12:
Programming
Assignment 1
(/noc23_cs108
/progassignme
nt?name=379)

● Week 12:
Programming
Assignment 2
(/noc23_cs108
/progassignme
nt?name=380)

● Week 12:
Programming
Assignment 3
(/noc23_cs108
/progassignme
nt?name=381)

Text

Yes, the answer is correct.

Score: 1

Accepted Answers:

One can only go forward from one node to another using a single edge.

10) What will be the output of the following code?

1 point

```
1     word = 'Hey there!'
2     print(list(word))
```

- ['Hey', 'there', '!']
- ['Hey', 'there', ',', '!']
- ['H', 'e', 'y', ',', 't', 'h', 'e', 'r', 'e', '!']
- ['H', 'e', 'y', 't', 'h', 'e', 'r', 'e', '!']

Yes, the answer is correct.

Score: 1

Accepted Answers:

['H', 'e', 'y', ',', 't', 'h', 'e', 'r', 'e', '!']

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