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



Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

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

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

Programming for Everybody (unit?
unit=17&lesson=20)

Any Prerequisites? (unit?
unit=17&lesson=21)

Where to start? (unit?

Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2022-08-10, 23:59 IST.

Assignment submitted on 2022-07-16, 22:37 IST

1) What are the functions that can be performed on the variables? **1 point**

- Rename
- Delete
- Initialize starting value
- All of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
All of the above

2) Which of the following statements is true? **1 point**

- One can run an infinite loop.
- One cannot change the value of a variable.
- One cannot add sound in scratch.
- One cannot change the size of the image.

Yes, the answer is correct.
Score: 1

Accepted Answers:
One can run an infinite loop.

3) Choose the odd one out. **1 point**

unit=17&lesson=22)

- If
- Repeat
- hide
- Wait

○ Why do we have so many languages?
(unit?

unit=17&lesson=23)

○ How to go about programming?
(unit?

unit=17&lesson=24)

○ Why to learn programming?
(unit?

unit=17&lesson=25)

○ What is programming?
(unit?

unit=17&lesson=26)

○ How to give instructions?
(unit?

unit=17&lesson=27)

○ Introduction to Scratch (unit?
unit=17&lesson=28)

○ Introduction to Loops (unit?
unit=17&lesson=29)

○ More about Loops (unit?
unit=17&lesson=30)

○ Solution to Looping Problem (unit?
unit=17&lesson=31)

○ Scratch : Animation 1
(unit?
unit=17&lesson=32)

○ Scratch : Animation 2
(unit?
unit=17&lesson=33)

○ Scratch : Animation 3
(unit?
unit=17&lesson=34)

Yes, the answer is correct.

Score: 1

Accepted Answers:
hide

4) Which command can be used to decrease the size of a sprite? **1 point**

- Set size by
- Change size by
- Decrease size
- Size change by

No, the answer is incorrect.

Score: 0

Accepted Answers:
Change size by

5) Which command can be used to move an object by some steps? **1 point**

- rotate
- turn
- move
- forward

Yes, the answer is correct.

Score: 1

Accepted Answers:
move

More on Scratch (unit?
unit=17&lesson=35)

Quiz: Week 1:
Assignment 1
(assessment?
name=287)

Week 1
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=17&lesson=36)

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

**Text
Transcripts ()**

**Download
Videos ()**

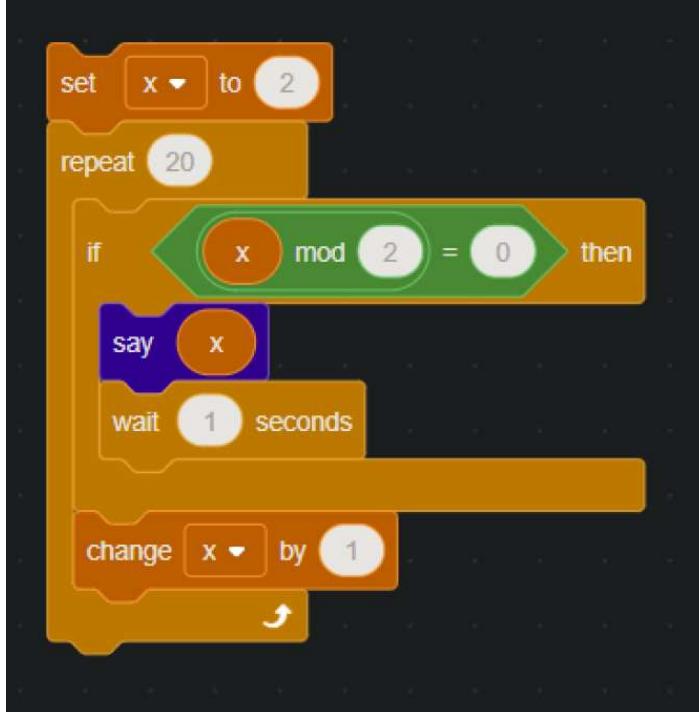
Books ()

**Live Session
()**

**Programming
test -
Session 1**

6) What does the cat say after executing the following code?

1 point



- All-natural numbers between 1-20. (Both inclusive)
- All even numbers between 1-20. (Both inclusive)
- All odd numbers between 1-20. (Both inclusive)
- All whole numbers between 0-20. (Both inclusive)

Yes, the answer is correct.

Score: 1

Accepted Answers:

All even numbers between 1-20. (Both inclusive)

7) Which of the following command is not related to the motion section?

0 points

- if
- wait
- move
- rotate

No, the answer is incorrect.

Score: 0

Accepted Answers:

if

8) Which command can be used to make an image reappear?

1 point

- hide
- reappear
- show
- glide

Yes, the answer is correct.

(October 16
2022 - 10 AM
to 1 PM) ()

Programming
test -
Session 1
(October 16
2022 - 8 PM
to 11 PM) ()

Problem
Solving
Session ()

Score: 1
Accepted Answers:
show

9) Which of the following command is used to take the absolute value of a number? **1 point**

- absolute of
- abs of
- mod of
- modulus of

Yes, the answer is correct.
Score: 1

Accepted Answers:
abs of

10) State True or False: In scratch one can mention x and y coordinates to move an image. **1 point**

- True
- False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

X



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(course)

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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=38)

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

Introduction to
Spyder IDE
(unit?
unit=37&lesson=40)

Printing
statements in
Python (unit?
unit=37&lesson=41)

Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2022-08-10, 23:59 IST.

Assignment submitted on 2022-08-01, 19:14 IST

1) What is the correct command to show the value stored in a variable? **1 point**

- show()
- cout()
- print()
- out()

Yes, the answer is correct.

Score: 1

Accepted Answers:

print()

2) What will be the output of the following piece of code? **1 point**

```
a = 'Bond'
b = 34
print('Hello Mr.', a, b+1)
```

- Hello Mr. Bond 34
- Hello Mr. 34
- Hello Mr. Bond 35
- Hello Mr. Bond 34

Understanding Variables in Python (unit? unit=37&lesson=42)

Yes, the answer is correct.
Score: 1

Accepted Answers:
Hello Mr. Bond 35

Executing a sequence of instructions in the Console (unit? unit=37&lesson=43)

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

1 point

In [3]: `x=10 x=y print(x,y)`

10,10

10

No output

Error

Writing your First Program (unit? unit=37&lesson=44)

Yes, the answer is correct.
Score: 1

Accepted Answers:
Error

Taking inputs from the user (unit? unit=37&lesson=45)

4) What is the extension of a python file?

1 point

sc

py

md

Cp

Discount Calculation (unit? unit=37&lesson=46)

Yes, the answer is correct.
Score: 1

Accepted Answers:
py

Motivation to if condition (unit? unit=37&lesson=47)

5) what will be the output of the following code, if the given input is 5?

1 point

A reminder on how to deal with numbers (unit? unit=37&lesson=48)

`A = input()
print(A*5)`

25

55555

55

5

Understanding if condition's working (unit? unit=37&lesson=49)

Yes, the answer is correct.
Score: 1

Accepted Answers:
55555

Realizing the importance of syntax and indentation (unit? unit=37&lesson=50)

6) Which of the following commands are correct to take input from a user?

1 point

n = input('Hello')

n = input("42")

n = input('42')

n = input(Hello)

(continued)

(unit?)

unit=37&lesson=53)

 n = input()

Yes, the answer is correct.

Score: 1

 Loops:

Multiplication

Tables (unit?)

unit=37&lesson=54)

Accepted Answers:

n = input('Hello')

n = input("42")

n = input('42')

n = input()

 Introduction to

While Loop

(unit?)

unit=37&lesson=55)

7) What will be the output of the following code if the input is '5'? 1 point

```

1  a = input('Enter a number')
2  b = int(a)
3  print(5*b)

```

 25 25.0 Error Week 2:

Programming

Assignment 1

(/noc22_cs122/progassigr
name=291)

No, the answer is incorrect.

Score: 0

 Week 2:

Programming

Assignment 2

(/noc22_cs122/progassigment
name=292)

Accepted Answers:

25

8) Which of the following blocks of codes are correct?(Assume x and y are initialized) 1 point Quiz: Week 2:

Assignment 2

(assessment?

name=295)



```

1  if(x==1):
2  if(y==1):
3      print(hey)

```



```

1  if(x==1):
2      print('statement')
3  if(y==1):
4      print('hey')

```



```

1  if(x=1):
2      print('statement')
3  if(y=1):
4      print('hey')

```

 Week 2

Feedback

Form: The Joy

of Computing

using Python

(unit?)

unit=37&lesson=56)

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Week 12 \(\)](#)[Text](#)[Transcripts \(\)](#)[Download](#)[Videos \(\)](#)[Books \(\)](#)[Live Session \(\)](#)[Programming test - Session 1 \(October 16 2022 - 10 AM to 1 PM\) \(\)](#)[Programming test - Session 1 \(October 16 2022 - 8 PM to 11 PM\) \(\)](#)[Problem Solving Session \(\)](#)

```

1 if(x==1):
2     print('statement')
3 if(y=1):
4     print('hey')

```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```

1 if(x==1):
2     print('statement')
3 if(y==1):
4     print('hey')

```

9) Which of the following statements are correct regarding the following code?

1 point

for i in range(a):

- i will take values from 0 to a.
- i will take values from 1 to a.
- i will take values from 0 to a-1.
- i will take values from 1 to a-1.

Yes, the answer is correct.

Score: 1

Accepted Answers:

i will take values from 0 to a-1.

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

1 point

```

2 a = 0
3 while(a < 10):
4     a = a+2
5     print(a)

```

- 1,2,3,4,5,6,7,8,9,10
- 2,4,6,8,10
- 0,1,2,3,4,5,6,7,8,9,10
- Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

2,4,6,8,10

X



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(course)



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)

Lists Part 3 :
Operations
(unit?
unit=57&lesson=60)

Lists Part 4 :
Slicing (unit?
unit=57&lesson=61)

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2022-08-17, 23:59 IST.

Assignment submitted on 2022-08-09, 14:39 IST

1) Which of the following statements describes the challenge 'Fizz Buzz'? **1 point**

- Multiples of 3 should print buzz, multiples of 5 should print fizz, and multiples of 3 and 5 should print fizz buzz.
- Multiples of 3 should print fizz, multiples of 5 should print buzz, and multiples of 3 or 5 should print fizz buzz.
- Multiples of 3 should print fizz, multiples of 5 should print buzz, and multiples of 3 and 5 should print fizz buzz.
- Multiples of 3 should print buzz, multiples of 5 should print fizz, and multiples of 3 and 5 should print fizz buzz.

Yes, the answer is correct.
Score: 1

Accepted Answers:

Multiples of 3 should print fizz, multiples of 5 should print buzz, and multiples of 3 and 5 should print fizz buzz.

2) random.randint(1,100) will generate a number _____.(assume random is imported) **1 point**

- Between 1,100 both inclusive.
- Between 1,100 both exclusive.
- Between 1,100 only 100 inclusive.
- Between 1,100 only 1 inclusive.

<ul style="list-style-type: none"> <input checked="" type="radio"/> Loops and Conditionals : Fizzbuzz 01 (unit? unit=57&lesson=62) <input checked="" type="radio"/> Loops and Conditionals : Fizzbuzz 02 (unit? unit=57&lesson=63) <input checked="" type="radio"/> Crowd Computing - Just estimate 01 (unit? unit=57&lesson=64) <input checked="" type="radio"/> Crowd Computing - Just estimate 02 (unit? unit=57&lesson=65) <input checked="" type="radio"/> Crowd Computing - Just estimate 03 (unit? unit=57&lesson=66) <input checked="" type="radio"/> Crowd Computing - Just estimate 04 (unit? unit=57&lesson=67) <input checked="" type="radio"/> Crowd Computing - Just estimate 05 (unit? unit=57&lesson=68) <input checked="" type="radio"/> Crowd Computing - Just estimate 06 (unit? unit=57&lesson=69) <input type="radio"/> Permutations - Jumbled Words 01 (unit? unit=57&lesson=70) <input type="radio"/> Permutations - Jumbled Words 02 (unit? unit=57&lesson=71) 	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>Between 1,100 both inclusive.</i></p> <p>3) Consider a string of 20 digits initialized with all zeros as a DNA sequence, in the context of lectures, updating a random 'zero' as 'one' implies ____.</p> <p><input type="radio"/> Updating a random number <input checked="" type="radio"/> Evolution <input type="radio"/> Degradation <input type="radio"/> Increase</p> <p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>Evolution</i></p> <p>4) Which of the following method is correct to add an element at a specific position? 1 point</p> <p><input checked="" type="radio"/> insert() <input type="radio"/> add() <input type="radio"/> append() <input type="radio"/> index()</p> <p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>insert()</i></p> <p>5) What will be the output of the following program? 1 point</p> <pre>1 L = ['Python', 'C++', 'Java', 'Kotlin'] 2 3 for lang in range(len(L)): 4 print(lang)</pre> <p><input type="radio"/> Python, C++, Java, Kotlin <input checked="" type="radio"/> 0, 1, 2, 3 <input type="radio"/> 0, 1, 2, 3, 4 <input type="radio"/> Python, C++, Java</p> <p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>0, 1, 2, 3</i></p> <p>6) Which of the following methods is correct to count the number of instances on an element in a list? 1 point</p> <p><input type="radio"/> total()</p>
--	--

<input type="radio"/> Permutations - Jumbled Words 03 (unit? unit=57&lesson=72)	<input type="radio"/> sum() <input checked="" type="radio"/> count() <input type="radio"/> numberof()	Yes, the answer is correct. Score: 1 Accepted Answers: <i>count()</i>	
<input type="radio"/> Theory of Evolution 01 (unit? unit=57&lesson=73)	7) In the Fizz Buzz game, What will be the output if the number is 285?		1 point
<input checked="" type="radio"/> Theory of Evolution 02 (unit? unit=57&lesson=74)	<input type="radio"/> Fizz <input type="radio"/> Buzz <input checked="" type="radio"/> Fizz Buzz <input type="radio"/> No output		
<input type="radio"/> Theory of Evolution 03 (unit? unit=57&lesson=75)	Yes, the answer is correct. Score: 1 Accepted Answers: <i>Fizz Buzz</i>		
<input type="radio"/> Theory of Evolution 04 (unit? unit=57&lesson=76)	8) Which of the following keywords is used to define a function in python?		1 point
<input type="radio"/> Week 3 Feedback Form: The Joy of Computing using Python (unit? unit=57&lesson=77)	<input type="radio"/> func <input type="radio"/> function <input type="radio"/> define function <input checked="" type="radio"/> def	Yes, the answer is correct. Score: 1 Accepted Answers: <i>def</i>	
<input checked="" type="radio"/> Quiz: Week 3: Assignment 3 (assessment? name=296)	9) Which of the following statements are true about crowd-sourcing?		1 point
<input checked="" type="radio"/> Week 3: Programming Assignment 1 (/noc22_cs122/progassignment? name=297)	<input type="checkbox"/> Answers received via crowdsourcing are never correct. <input checked="" type="checkbox"/> Answers received via crowdsourcing can be as good as the answer by an expert. <input checked="" type="checkbox"/> Answers received via crowdsourcing can be better than the answer by an expert. <input type="checkbox"/> Answers received via crowdsourcing are always correct.	Yes, the answer is correct. Score: 1 Accepted Answers: <i>Answers received via crowdsourcing can be as good as the answer by an expert.</i> <i>Answers received via crowdsourcing can be better than the answer by an expert.</i>	
<input checked="" type="radio"/> Week 3: Programming Assignment 2 (/noc22_cs122/progassignment? name=298)	10) Which of the following commands is not correct in order to generate a graph?		1 point
<input checked="" type="radio"/> Week 3: Programming Assignment 3 (/noc22_cs122/progassignment? name=299)	<input checked="" type="radio"/> import matplotlib.pyplot as plt plt.plot([1,2,3,4],[5,6,7,8],ro) <input type="radio"/> import matplotlib.pyplot as plt plt.plot([1,2,3,4],[5,6,7,8],r--)		
week 4 ()			

[Week 5 \(\)](#)[Week 6 \(\)](#)[Week 7 \(\)](#)[Week 8 \(\)](#)[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Week 12 \(\)](#)[Text](#)[Transcripts \(\)](#)[Download](#)[Videos \(\)](#)[Books \(\)](#)[Live Session](#)[\(\)](#)[Programming
test -](#)[Session 1
\(October 16
2022 - 10 AM
to 1 PM\) \(\)](#)[Programming
test -](#)[Session 1
\(October 16
2022 - 8 PM
to 11 PM\) \(\)](#)[Problem
Solving
Session \(\)](#)

import matplotlib.pyplot as plt

plt.plot([1,2,3,4],[5,6,7,8],bs)

import matplotlib.pyplot as plt

plt.plot([1,2,3,4],[5,6,7,8],r---

Yes, the answer is correct.

Score: 1

Accepted Answers:

import matplotlib.pyplot as plt

plt.plot([1,2,3,4],[5,6,7,8],r---)

X



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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&lesson=79)

Magic Square:
Hit and Trial
01 (unit?
unit=78&lesson=80)

Magic Square:
Hit and Trial
02 (unit?
unit=78&lesson=81)

Magic Square:
Hit and Trial

Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2022-08-24, 23:59 IST.

Assignment submitted on 2022-08-15, 19:38 IST

1) Which of the following statements are true regarding the Magic Squares? (N = Number of rows or columns)

- A Magic Square is always a square matrix.
- A Magic Square can or cannot be a square matrix.
- The Sum of each row and each column is $N(N+1)/2$
- The Sum of each row and each column is $N(N^2 +1)/2$.

Yes, the answer is correct.

Score: 1

Accepted Answers:

A Magic Square is always a square matrix.

The Sum of each row and each column is $N(N^2 +1)/2$.

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

1 point

```

1   ...
2   This is a sentence
3   ...

```

- This is a sentence.
- Error
- No output

03 (unit?
unit=78&lesson=82)

Magic Square:
Hit and Trial
04 (unit?
unit=78&lesson=83)

Magic Square:
Hit and Trial
05 (unit?
unit=78&lesson=84)

Let's program
and play (unit?
unit=78&lesson=85)

Dobble Game
- Spot the
similarity 01
(unit?
unit=78&lesson=86)

Dobble Game
- Spot the
similarity 02
(unit?
unit=78&lesson=87)

Dobble Game
- Spot the
similarity 03
(unit?
unit=78&lesson=88)

Dobble Game
- Spot the
similarity 04
(unit?
unit=78&lesson=89)

What is your
date of birth?
(unit?
unit=78&lesson=90)

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

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

Birthday
Paradox - Find
your twin 03

The program will not run

Yes, the answer is correct.

Score: 1

Accepted Answers:

No output

3) A perfect number is a number in which the sum of its proper divisors is equal to that **1 point** number. For example, 6 is a perfect number as the sum of its divisors 1,2,3 is equal to 6. Which function returns True if the number is perfect?

```
1 def perfect_number(num):
2     ans=0
3     for i in range(1,num):
4         if(num%i==0):
5             ans = ans + i
6     if(ans==num):
7         return True
8     else:
9         return False
10
```

```
1 def perfect_number(num):
2     ans=0
3     for i in range(1,num):
4         if(num%i==0):
5             ans+=i
6     if(ans==num):
7         return False
8     else:
9         return True
10
```

```
1 def perfect_number(num):
2     ans=0
3     for i in range(3,num):
4         if(num%i==0):
5             ans = ans + i
6     if(ans==num):
7         return True
8     else:
9         return False
```

(unit?
unit=78&lesson=93)

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

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

What's your
favourite
movie? (unit?
unit=78&lesson=96)

Guess the
Movie Name
01 (unit?
unit=78&lesson=97)

Guess the
Movie Name
02 (unit?
unit=78&lesson=98)

Guess the
Movie Name
03 (unit?
unit=78&lesson=99)

Guess the
Movie Name
04 (unit?
unit=78&lesson=100)

Guess the
Movie Name
05 (unit?
unit=78&lesson=101)

Guess the
Movie Name
06 (unit?
unit=78&lesson=102)

Quiz: Week 4:
Assignment 4
(assessment?
name=300)

Week 4:
Programming
Assignment 1
(/noc22_cs122/progassigr
name=301)

```
1 def perfect_number(num):
2     ans=0
3     for i in range(1,num):
4         if(num%i==0):
5             ans = ans + i
6     if(ans!=num):
7         return True
8     else:
9         return False
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
1 def perfect_number(num):
2     ans=0
3     for i in range(1,num):
4         if(num%i==0):
5             ans = ans + i
6     if(ans==num):
7         return True
8     else:
9         return False
10
```

4) Suppose there is a movie with 3 letters, how many combinations of names are possible?

1 point

26

676

17576

456976

Yes, the answer is correct.

Score: 1

Accepted Answers:

17576

5) What are the possible outputs of the following program?

1 point

```
1 import random
2
3 n = random.randint(0,100)
4 print(n%5)
```

- Week 4:
Programming
Assignment 2
(/noc22_cs122/progassignment?
name=302)
- Any number in the range between 0,4 (Both inclusive).
 Any number in the range between 1,4 (Both inclusive).
 Any number in the range between 0,5 (Both inclusive).
 Any number in the range between 1,5 (Both inclusive).
- Week 4:
Programming
Assignment 3
(/noc22_cs122/progassignment?
name=303)
- Yes, the answer is correct.
Score: 1
Accepted Answers:
Any number in the range between 0,4 (Both inclusive).
- 6) Birthday Paradox can be simulated with approximately _____ people. **1 point**
- Week 4
Feedback
Form: The Joy
of Computing
using Python
(unit?
unit=78&lesson=103)
- 365
 100
 40
 20
- No, the answer is incorrect.
Score: 0
Accepted Answers:
40
- 7) What is the command to print the last result of the ipython console? **1 point**
- "
 -
 --
 \\
- Yes, the answer is correct.
Score: 1
Accepted Answers:
-
- 8) What will be the output of the following program? **1 point**
- ```

1 L1 = ['starwars', 'godfather', 'passenger', 'jaurassic park']
2 L2 = ['spiderman', 'jumanji', 'Passenger', 'Starwars']
3
4 for i in L1:
5 for j in L2:
6 if i[0] == j[0]:
7 print(j)

```
- Passenger, Starwars  
 spiderman, jumanji  
 spiderman, jumanji, Passenger, Starwars  
 spiderman, Starwars
- Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*spiderman, jumanji*

**Programming test -**

**Session 1**  
**(October 16**  
**2022 - 8 PM**  
**to 11 PM) ()**

**Problem Solving Session ()**

- 9) In the 'Dobble Game', if there are 8 objects on 1 card and 10 objects on another, how many comparisons are possible? **1 point**

- 8
- 10
- 18
- 80

Yes, the answer is correct.

Score: 1

Accepted Answers:

80

10)

**1 point**

What will be the output of the following code?

```

1 import random
2
3 L = ['harry potter', 'matrix', 'spiderman', 'terminator', 'karate kid']
4
5 movie = random.choice(L)
6
7 count = 0
8
9 for character in movie:
10
11 if(character == 'a' or character == 'A'):
12 count = count+1
13
14 elif(character == 'e' or character == 'E'):
15 count = count+1
16
17 elif(character == 'i' or character == 'I'):
18 count = count+1
19
20 elif(character == 'o' or character == 'O'):
21 count = count+1
22
23 elif(character == 'U' or character == 'u'):
24 count = count+1
25
26 print(count, movie)

```

- Display the number of consonants and name of the movie.
- Display the number of letters and name of the movie.
- Display the number of vowels and name of the movie.
- Display the number of special characters and name of the movie.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Display the number of vowels and name of the movie.*



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**(course)**



## Course outline

How does an  
NPTEL  
online  
course  
work? ()

**Week 0** ()

**Week 1** ()

**Week 2** ()

**Week 3** ()

**week 4** ()

**Week 5** ()

Introduction to  
Dictionaries  
(unit?  
unit=104&lesson=105)

Speech to Text  
: No need to  
write 01 (unit?  
unit=104&lesson=106)

Speech to Text  
: No need to

# Week 5: Assignment 5

The due date for submitting this assignment has passed.

**Due on 2022-08-31, 23:59 IST.**

**Assignment submitted on 2022-08-22, 16:53 IST**

1) What is the correct way to initialize a dictionary?

**1 point**

- D = {a-10, b-20, c-30}
- D = {'a'-10, 'b'-20, 'c'-30}
- D = {a:10, b:20, c:30}
- D = {'a':10, 'b':20, 'c':30}

Yes, the answer is correct.

Score: 1

Accepted Answers:

D = {'a':10, 'b':20, 'c':30}

2) What is the correct syntax to get all the keys only from a dictionary d?

**1 point**

- d.key()
- d.item()
- d.value()
- d.keys()

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.keys()

3) Which of the following statements are true about dictionaries in python?

**1 point**

write 02 (unit?  
unit=104&lesson=107)

- The keys of a dictionary must be unique values.
- The keys of a dictionary can or cannot be unique.
- The values of a dictionary must be unique values.
- The values of a dictionary can or cannot be unique.

Speech to Text  
: No need to  
write 03 (unit?  
unit=104&lesson=108)

Yes, the answer is correct.

Score: 1

Monte Hall : 3  
doors and a  
twist 01 (unit?  
unit=104&lesson=109)

Accepted Answers:

*The keys of a dictionary must be unique values.*

*The values of a dictionary can or cannot be unique.*

Monte Hall : 3  
doors and a  
twist 02 (unit?  
unit=104&lesson=110)

4) State True or False: In the monte hall problem, swapping the choice does not increase the chance of winning.

**1 point**

True

False

Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 01  
(unit?  
unit=104&lesson=111)

Yes, the answer is correct.

Score: 1

Accepted Answers:

*False*

Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 02  
(unit?  
unit=104&lesson=112)

5) In dictionaries, d.items() will return \_

**1 point**

Pairs of all (key, value) together.

All (keys) and (values) separately.

All (values) and (keys) separately.

Pairs of all (value, key) together.

Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 03  
(unit?  
unit=104&lesson=113)

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Pairs of all (key, value) together.*

Rock, Paper  
and Scissor :  
Cheating not  
allowed !! 04  
(unit?  
unit=104&lesson=114)

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

**1 point**

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

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

Sorting and  
Searching : 20

questions  
game 03 (unit?  
unit=104&lesson=117)

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

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

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

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

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

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

**Quiz: Week 5:**  
**Assignment 5**  
**(assessment?**  
**name=304)**

Week 5:  
Programming  
Assignment 1  
(/noc22\_cs122/progassignment?  
name=306)

Week 5:  
Programming  
Assignment 2  
(/noc22\_cs122/progassignment?  
name=307)

```

1 import string
2 import random
3
4 a = string.ascii_lowercase
5 d = {}
6
7 for i in range(26):
8
9 index = random.randint(0, 25)
10 try:
11 d[a[index]]+=1
12 except KeyError:
13 d[a[index]] = 0
14
15
16 print(d)

```

- A dictionary with all letters as keys and 0 as values.
- A dictionary with some letters as keys and 0 as values.
- A dictionary with all letters as keys and some random numbers as values.
- A dictionary with some letters as keys and some random numbers as values.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

*A dictionary with some letters as keys and some random numbers as values.*

7) Binary search can be applied on \_\_\_\_.

**1 point**

- Sorted list in ascending order.
- Unsorted list
- Both A and B
- Sorted list in descending order

Yes, the answer is correct.  
Score: 1

Accepted Answers:

*Sorted list in ascending order.*  
*Sorted list in descending order*

8) Which error is encountered while accessing a position that is not present in a list? **1 point**

- KeyError
- IndexError
- RunTimeError
- ValueError

Week 5:  
Programming  
Assignment 3  
(/noc22\_cs122/progassignment?  
name=308)

Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*IndexError*

9) Which of the following command is correct to delete a key from a dictionary 'd'? **1 point**

- d.pop('key')
- d.del('key')
- d.remove('key')
- d.delete('key')

Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*d.pop('key')*

10) Which of the following is/are correct regarding dictionaries? **1 point**

- 1) One can make a dictionary inside a dictionary in python.
- 2) Keys in the dictionary are mutable.

- Option 1 is correct, option 2 is correct. Option 2 is the correct explanation for option 1.
- Option 1 is correct, option 2 is incorrect. Option 2 is not the correct explanation for option 1.
- Option 1 is correct, option 2 is correct. Option 2 is not the correct explanation for option 1.
- None of these

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*Option 1 is correct, option 2 is incorrect. Option 2 is not the correct explanation for option 1.*

**Programming test -**  
**Session 1**  
**(October 16**  
**2022 - 10 AM**  
**to 1 PM) ()**

**Programming test -**  
**Session 1**  
**(October 16**  
**2022 - 8 PM**  
**to 11 PM) ()**

**Problem Solving Session ()**



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Course  
outline

How does an  
NPTEL  
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course  
work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Substitution  
Cipher -The  
science of  
secrecy (unit?  
unit=124&lesson=125)

Substitution  
Cipher -The  
science of  
secrecy 01

## Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2022-09-07, 23:59 IST.

Assignment submitted on 2022-08-28, 08:41 IST

1) In the list L = [4,6,7,4,6,2,1], What is the index of element '7'? 1 point

- 0
- 1
- 2
- 3

Yes, the answer is correct.

Score: 1

Accepted Answers:

2

2) Which of the following is true about recursion? 1 point

- Recursion always performs better than non-recursive code.
- Recursive code is easier to debug
- The base case is necessary for recursion.
- Recursive code can be shorter than non-recursive code.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Recursive code is easier to debug*

*The base case is necessary for recursion.*

*Recursive code can be shorter than non-recursive code.*

(unit?  
unit=124&lesson=126)

Substitution  
Cipher -The  
science of  
secrecy 02  
(unit?  
unit=124&lesson=127)

Substitution  
Cipher -The  
science of  
secrecy 03  
(unit?  
unit=124&lesson=128)

Tic Tac Toe -  
Down the  
memory Lane  
(unit?  
unit=124&lesson=129)

Tic Tac Toe -  
Down the  
memory Lane  
01 (unit?  
unit=124&lesson=130)

Tic Tac Toe -  
Down the  
memory Lane  
02 (unit?  
unit=124&lesson=131)

Tic Tac Toe -  
Down the  
memory Lane  
03 (unit?  
unit=124&lesson=132)

Tic Tac Toe -  
Down the  
memory Lane  
04 (unit?  
unit=124&lesson=133)

Tic Tac Toe -  
Down the  
memory Lane  
05 (unit?  
unit=124&lesson=134)

Recursion  
(unit?  
unit=124&lesson=135)

Recursion 01  
(unit?  
unit=124&lesson=136)

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

1 point

```
1 s = 'AbraKaDabra'
2 print(s[1:6])
3
```

- No output
- braKa
- Abra
- rak

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*braKa*

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

1 point

```
1 def recursive(a):
2
3 if a == 0:
4 return 0
5
6 return a+recursive(a-1)
7
8 print(recursive(10))
```

- Sum of first 10 natural numbers.
- Sum of first 9 natural numbers.
- The program will never end.
- Sum of numbers from 2-10(Both inclusive).

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*Sum of first 10 natural numbers.*

5) What's the correct code for Binary search?

1 point

- Recursion 02  
(unit?  
unit=124&lesson=137)
- Recursion 03  
(unit?  
unit=124&lesson=138)
- Recursion 04  
(unit?  
unit=124&lesson=139)
- Recursion 05  
(unit?  
unit=124&lesson=140)
- Recursion 06  
(unit?  
unit=124&lesson=141)

- Week 6  
Feedback  
Form: The Joy  
of Computing  
using Python  
(unit?  
unit=124&lesson=142)

- Quiz: Week 6:  
Assignment 6  
(assessment?  
name=309)

- Week 6:  
Programming  
Assignment 1  
(/noc22\_cs122/progassgnmer  
name=310)

- Week 6:  
Programming  
Assignment 2  
(/noc22\_cs122/progassgnmer  
name=311)

- Week 6:  
Programming  
Assignment 3  
(/noc22\_cs122/progassgnmer  
name=312)

**Week 7 ()**

**Week 8 ()**

**Week 9 ()**

**Week 10 ()**

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

[Week 11 \(\)](#)[Week 12 \(\)](#)[Text  
Transcripts \(\)](#)[Download  
Videos \(\)](#)[Books \(\)](#)[Live Session  
\( \)](#)[Programming  
test -  
Session 1  
\(October 16  
2022 - 10 AM  
to 1 PM\) \(\)](#)[Programming  
test -  
Session 1  
\(October 16  
2022 - 8 PM  
to 11 PM\) \(\)](#)[Problem  
Solving  
Session \(\)](#)

```
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: 1

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)
```

- 6) Which of the following can be used to see the dimension of a NumPy array named **1 point** 'arr'?

- dim(arr)
- shape(arr)
- arr.shape
- arr.shape()

Yes, the answer is correct.

Score: 1

Accepted Answers:

*arr.shape*

- 7) If PYTHON is encoded by TCXLSR then DIAMOND will be encoded as? **1 point**

- EJBNPOE
- FKCORPF
- HMERTSH
- HMEQSRH

Yes, the answer is correct.

Score: 1

Accepted Answers:

*HMEQSRH*

- 8) Select the correct statement **1 point**

- 1) print('9a'.isalnum()) will return True.
- 2) '9a' contains both alphabetic and numeric parts.

- Option 1 is correct, option 2 is correct. Option 2 is the correct explanation for option 1.

- Option 1 is correct, option 2 is incorrect.
- Option 1 is correct, option 2 is correct. Option 2 is not the correct explanation for option 1.
- Option 1 is incorrect, option 2 is incorrect.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Option 1 is correct, option 2 is correct. Option 2 is the correct explanation for option 1.*

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

**1 point**

```
1 s = 'Fusce id odio leo In quis laoreet nulla'
2 d = {}
3
4 for i in s:
5
6 d[i]+=1
7
8 print(d)
```

- A dictionary with the count of each character in s.
- A dictionary with the count of each special character in s.
- A dictionary with the count of letters in s.
- Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Error*

10) Let L be a list containing different names of movies. Which statement is correct to select a random movie name from that list L? **1 point**

- `random.choices(L)`
- `random.select(L)`
- `random.movie(L)`
- `random.random(L)`

Yes, the answer is correct.

Score: 1

Accepted Answers:

*random.choices(L)*

X



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Course  
outline

How does an  
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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

## Week 7: Assignment 7

The due date for submitting this assignment has passed.

Due on 2022-09-14, 23:59 IST.

Assignment submitted on 2022-09-06, 11:17 IST

1) How ladders & snakes are represented by the instructor? 1 point

- Through lists.
- Through dictionaries.
- Through if and elif conditions.
- Through sets.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Through if and elif conditions.*

2) Which of the following is the correct full form of CSV? 1 point

- Comma separated values.
- Colon separated values.
- Semi-Colons separated values.
- Tab separated values.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Comma separated values.*

3) Why do we use functions? 1 point

|                                                                                            |                                                                                                                                                                                                                                                                                       |                 |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| on the Board -<br>Part 01 (unit?<br>unit=143&lesson=145)                                   | <input checked="" type="checkbox"/> To improve readability.<br><input checked="" type="checkbox"/> To reuse code blocks.<br><input checked="" type="checkbox"/> For the ease of code debugging.<br><input type="checkbox"/> For fun.                                                  |                 |
| <b>● Snakes and Ladders - Not on the Board -</b><br>Part 02 (unit?<br>unit=143&lesson=146) | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>To improve readability.</i><br><i>To reuse code blocks.</i><br><i>For the ease of code debugging.</i>                                                                                                              | <b>1 point</b>  |
| <b>● Snakes and Ladders - Not on the Board -</b><br>Part 03 (unit?<br>unit=143&lesson=147) | 4) In snakes and ladders, what can be the other ways, except for one used by the instructor, to keep track of ladders and snakes?                                                                                                                                                     | <b>1 point</b>  |
| <b>● Snakes and Ladders - Not on the Board -</b><br>Part 04 (unit?<br>unit=143&lesson=148) | <input checked="" type="checkbox"/> Maintain a dictionary with snakes or ladder number blocks as keys.<br><input type="checkbox"/> Using the if condition to check on every number.<br><input checked="" type="checkbox"/> Using lists.<br><input type="checkbox"/> None of the above |                 |
| <b>● Snakes and Ladders - Not on the Board -</b><br>Part 05 (unit?<br>unit=143&lesson=149) | Partially Correct.<br>Score: 0.67<br>Accepted Answers:<br><i>Maintain a dictionary with snakes or ladder number blocks as keys.</i><br><i>Using the if condition to check on every number.</i><br><i>Using lists.</i>                                                                 | <b>1 point</b>  |
| <b>● Snakes and Ladders - Not on the Board -</b><br>Part 06 (unit?<br>unit=143&lesson=150) | 5) Which of the following libraries is used for animation?                                                                                                                                                                                                                            | <b>1 point</b>  |
| <b>○ Spiral Traversing - Let's Animate (unit?</b><br>unit=143&lesson=151)                  | <input type="radio"/> Matplotlib<br><input checked="" type="radio"/> Turtle<br><input type="radio"/> Random<br><input type="radio"/> PIL                                                                                                                                              |                 |
| <b>○ Spiral Traversing - Let's Animate -</b><br>Part 01 (unit?<br>unit=143&lesson=152)     | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>Turtle</i>                                                                                                                                                                                                         | <b>1 point</b>  |
| <b>● Spiral Traversing - Let's Animate -</b><br>Part 02 (unit?<br>unit=143&lesson=153)     | 6) The spiral animation problem can be broken down into?                                                                                                                                                                                                                              | <b>1 point</b>  |
| <b>● Spiral Traversing - Let's Animate -</b><br>Part 03 (unit?<br>unit=143&lesson=154)     | <input type="radio"/> A list.<br><input checked="" type="radio"/> A 2D table.<br><input type="radio"/> A 3D table.<br><input type="radio"/> A dictionary.                                                                                                                             |                 |
| <b>○ Spiral Traversing -</b>                                                               | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>A 2D table.</i>                                                                                                                                                                                                    | <b>0 points</b> |
|                                                                                            | <input type="radio"/> To show directions to the user.                                                                                                                                                                                                                                 |                 |

Let's Animate -  
Part 04 (unit?  
unit=143&lesson=155)

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)

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

Quiz: Week 7:  
Assignment 7  
(assessment?  
name=313)

- To track the directions of the user.
- To show the way to the user on maps.
- None of the above.

Yes, the answer is correct.

Score: 0

Accepted Answers:

*To track the directions of the user.*

8) What does the following program will do after execution? 1 point

```
1 from PIL import image
2
3 im = image.open('snakesraw.png')
4 im.save('snakes.png')
```

- Rename snakesraw.png as snakes.png
- Make a copy of snakesraw.png with the name snakes.png
- Make a copy of snakesraw.png with the name snakes.jpeg
- Throws an error

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Throws an error*

9) Which of the following code will draw a star? 1 point

```
1 import turtle
2 mypen = turtle.Turtle()
3
4 for i in range(3):
5 mypen.forward(50)
6 mypen.right(144)
7
8 turtle.done()
```

- Week 7:  
Programming  
Assignment 1  
(/noc22\_cs122/progassignment?  
name=314)
- Week 7:  
Programming  
Assignment 2  
(/noc22\_cs122/progassignment?  
name=315)
- Week 7:  
Programming  
Assignment 3  
(/noc22\_cs122/progassignment?  
name=316)

```
1 import turtle
2 mypen = turtle.Turtle()
3
4 for i in range(3):
5 mypen.forward(100)
6 mypen.right(144)
7
8 turtle.done()
```

[Week 8 \(\)](#)

[Week 9 \(\)](#)

[Week 10 \(\)](#)

[Week 11 \(\)](#)

[Week 12 \(\)](#)

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[Programming  
test -  
Session 1  
\(October 16  
2022 - 10 AM  
to 1 PM\) \(\)](#)

[Programming  
test -  
Session 1  
\(October 16  
2022 - 8 PM  
to 11 PM\) \(\)](#)

```
1 import turtle
2 mypen = turtle.Turtle()
3
4 for i in range(6):
5 mypen.forward(50)
6 mypen.right(144)
7
8 turtle.done()
```

```
1 import turtle
2 mypen = turtle.Turtle()
3
4 for i in range(6):
5 mypen.forward(100)
6 mypen.right(60)
7
8 turtle.done()
```

Yes, the answer is correct.

**Problem  
Solving  
Session ()**

Score: 1

Accepted Answers:

```
1 import turtle
2 mypen = turtle.Turtle()
3
4 for i in range(6):
5 mypen.forward(50)
6 mypen.right(144)
7
8 turtle.done()
```

10) Which method is used to fill color in shapes drawn by the turtle?

**1 point**

- color
- fillcolor
- changecolor
- putcolor

Partially Correct.

Score: 0.5

Accepted Answers:

*color**fillcolor*

X



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

≡

Course  
outline

How does an  
NPTEL  
online  
course  
work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

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

## Week 8: Assignment 8

The due date for submitting this assignment has passed.

Due on 2022-09-21, 23:59 IST.

Assignment submitted on 2022-09-12, 17:24 IST

1) Which of the following q43 the correct representation of tuples?

1 point

- [1,2,3,4]
- (1,2,3,4)
- ((1), (2), (3), (4))
- [[1], [2], [3], [4]]

Yes, the answer is correct.

Score: 1

Accepted Answers:

(1,2,3,4)  
((1), (2), (3), (4))

2) Why gambling is not recommended?

1 point

- Because you lose every time.
- Because you win every time.
- Because the loss amount is greater than the winning amount over time.
- Because the winning amount is greater than the loss amount over time.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Because the loss amount is greater than the winning amount over time.*

Lottery

Simulation -  
Profit or Loss  
(unit?  
unit=165&lesson=167)

 Lottery

Simulation -  
Profit or Loss -  
Part 01 (unit?  
unit=165&lesson=168)

 Lottery

Simulation -  
Profit or Loss -  
Part 02 (unit?  
unit=165&lesson=169)

 Lottery

Simulation -  
Profit or Loss -  
Part 03 (unit?  
unit=165&lesson=170)

 Lottery

Simulation -  
Profit or Loss -  
Part 04 (unit?  
unit=165&lesson=171)

 Lottery

Simulation -  
Profit or Loss -  
Part 05 (unit?  
unit=165&lesson=172)

 Lottery

Simulation -  
Profit or Loss -  
Part 06 (unit?  
unit=165&lesson=173)

 Image

Processing -  
Enhance your  
images (unit?  
unit=165&lesson=174)

 Image

Processing -  
Enhance your  
images - Part  
01 (unit?  
unit=165&lesson=175)

 Image

Processing -  
Enhance your  
images - Part

3) Which of the following programs will print the exact same word?

1 point

```

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

```

```

1 word = 'nptel'
2 new = ''
3
4 for i in word:
5 j = ord(i)
6 k = (((j+26)) % 26)
7
8 new = new+chr(k)
9
10 print(new)

```

```

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

```

02 (unit?  
unit=165&lesson=176)

Image

Processing -  
Enhance your  
images - Part

03 (unit?

unit=165&lesson=177)

Anagrams

(unit?  
unit=165&lesson=178)

Anagrams -

Part 01 (unit?  
unit=165&lesson=179)

Anagrams -

Part 02 (unit?  
unit=165&lesson=180)

Anagrams -

Part 03 (unit?  
unit=165&lesson=181)

Facebook

Sentiment  
Analysis (unit?  
unit=165&lesson=182)

Facebook

Sentiment  
Analysis - Part  
01 (unit?  
unit=165&lesson=183)

Facebook

Sentiment  
Analysis - Part  
02 (unit?  
unit=165&lesson=184)

Facebook

Sentiment  
Analysis - Part  
03 (unit?  
unit=165&lesson=185)

Facebook

Sentiment  
Analysis - Part  
04 (unit?  
unit=165&lesson=186)

Quiz: Week 8:

Assignment 8

(assessment?  
name=318)

```

1 word = 'nptel'
2 new = ''
3
4 for i in word:
5 j = (i)
6 k = (((j+26) - 97) % 26) + 97
7
8 new = new+(k)
9
10 print(new)

```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```

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

```

```

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

```

- 4) Using which of the following methods a person can store over a million images in small digital storage? **1 point**

Decompression

Compression

|                                                                                                                             |                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="radio"/> Week 8<br>Feedback<br>Form: The Joy<br>of Computing<br>using Python<br>(unit?<br>unit=165&lesson=187) | <input type="checkbox"/> Enhancement<br><input type="checkbox"/> Unzip<br><br>Partially Correct.<br>Score: 0.5<br>Accepted Answers:<br><i>Compression</i><br><i>Enhancement</i>                                                                                                       |
| <input checked="" type="radio"/> Week 8:<br>Programming<br>Assignment 1<br>(/noc22_cs122/progassignment?<br>name=319)       | 5) State True or False, A lot of information can be revealed from images by using the <b>1 point</b><br>right kind of enhancement.<br><input checked="" type="radio"/> True<br><input type="radio"/> False                                                                            |
| <input checked="" type="radio"/> Week 8:<br>Programming<br>Assignment 2<br>(/noc22_cs122/progassignment?<br>name=320)       | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>True</i>                                                                                                                                                                                                           |
| <input checked="" type="radio"/> Week 8:<br>Programming<br>Assignment 3<br>(/noc22_cs122/progassignment?<br>name=321)       | 6) type(10) will return? <b>1 point</b><br><input checked="" type="radio"/> int<br><input type="radio"/> str<br><input type="radio"/> float<br><input type="radio"/> list                                                                                                             |
| <b>Week 9 ()</b>                                                                                                            | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>int</i>                                                                                                                                                                                                            |
| <b>Week 10 ()</b>                                                                                                           | 7) Which of the following pair of words are anagrams? <b>1 point</b><br><input checked="" type="checkbox"/> A gentleman, Elegant man<br><input type="checkbox"/> Cat, Arc<br><input checked="" type="checkbox"/> Looted, Toledo<br><input type="checkbox"/> Monasteries, Aman stories |
| <b>Week 11 ()</b>                                                                                                           | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>A gentleman, Elegant man</i><br><i>Looted, Toledo</i>                                                                                                                                                              |
| <b>Week 12 ()</b>                                                                                                           | 8) Using PIL how an image 'img' can be flipped? <b>1 point</b><br><input type="radio"/> img.flip()<br><input type="radio"/> img.rotate()<br><input checked="" type="radio"/> img.transpose()<br><input type="radio"/> img.turn()                                                      |
| <b>Text<br/>Transcripts ()</b>                                                                                              | Yes, the answer is correct.                                                                                                                                                                                                                                                           |
| <b>Download<br/>Videos ()</b>                                                                                               |                                                                                                                                                                                                                                                                                       |
| <b>Books ()</b>                                                                                                             |                                                                                                                                                                                                                                                                                       |
| <b>Live Session<br/>()</b>                                                                                                  |                                                                                                                                                                                                                                                                                       |
| <b>Programming<br/>test -<br/>Session 1<br/>(October 16<br/>2022 - 10 AM<br/>to 1 PM) ()</b>                                |                                                                                                                                                                                                                                                                                       |
| <b>Programming<br/>test -<br/>Session 1</b>                                                                                 | Yes, the answer is correct.                                                                                                                                                                                                                                                           |

(October 16  
2022 - 8 PM  
to 11 PM) ()

Problem  
Solving  
Session ()

Score: 1  
Accepted Answers:  
*img.transpose()*

- 9) What is the purpose of NLTK? 1 point
- To process binary language.
  - To process foreign language.
  - To process human language.
  - To process only Hindi language

Yes, the answer is correct.

Score: 1

Accepted Answers:  
*To process human language.*

- 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

How does an  
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course  
work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

• Natural  
Language  
Processing -  
Author

## Week 9: Assignment 9

The due date for submitting this assignment has passed.

Due on 2022-09-28, 23:59 IST.

Assignment submitted on 2022-09-21, 18:59 IST

1) Which of the following ways can help to identify the author of a book? **1 point**

- Books coverage
- The uniqueness of writing.
- Average word length.
- Publisher name.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*The uniqueness of writing.*

*Average word length.*

2) Networkx in pythons is used for **1 point**

- Making networks
- Analyzing networks
- Visualizing networks
- Breaking networks

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Making networks*

*Analyzing networks*

*Visualizing networks*

Stylometry

(unit?

unit=188&amp;lesson=189)

 Natural

Language

Processing -

Author

Stylometry -

Part 01 (unit?

unit=188&amp;lesson=190)

 Natural

Language

Processing -

Author

Stylometry -

Part 02 (unit?

unit=188&amp;lesson=191)

 Natural

Language

Processing -

Author

Stylometry -

Part 03 (unit?

unit=188&amp;lesson=192)

 Natural

Language

Processing -

Author

Stylometry -

Part 04 (unit?

unit=188&amp;lesson=193)

 Natural

Language

Processing -

Author

Stylometry -

Part 05 (unit?

unit=188&amp;lesson=194)

 Natural

Language

Processing -

Author

Stylometry -

Part 06 (unit?

unit=188&amp;lesson=195)

 Natural

Language

Processing -

Author

Stylometry -

Part 07 (unit?

unit=188&amp;lesson=196)

3) What is the output of the following program? 1 point

```
1 s = 'joc python'
2 print(list(s))
```

- ['joc, 'python']  
 ['j', 'o', 'c', ' ', 'p', 'y', 't', 'h', 'o', 'n']  
 ['j', 'o', 'c', ' ', 'p', 'y', 't', 'h', 'o', 'n']  
 [' ', 'c', 'h', 'j', 'n', 'o', 'p', 't', 'y']

Yes, the answer is correct.

Score: 1

Accepted Answers:

['j', 'o', 'c', ' ', 'p', 'y', 't', 'h', 'o', 'n']

4) In the world, on average, how many hops it will take to connect two people? 1 point

- 6  
 7  
 8  
 9  
 10

Yes, the answer is correct.

Score: 1

Accepted Answers:

6

5) In the following code, nx.is\_connected(G) will return? 1 point

```
1 import networkx as nx
2
3 G = nx.gnp_random_graph(5, 1)
```

- True  
 False  
 Sometimes True, sometimes false

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

Natural Language Processing - Author Stylometry - Part 08 (unit? unit=188&lesson=197)

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

Natural Language Processing - Author Stylometry - Part 10 (unit? unit=188&lesson=199)

Introduction to Networkx - Part 01 (unit? unit=188&lesson=200)

Introduction to Networkx - Part 02 (unit? unit=188&lesson=201)

Six Degrees of Separation : Meet your favourites (unit? unit=188&lesson=202)

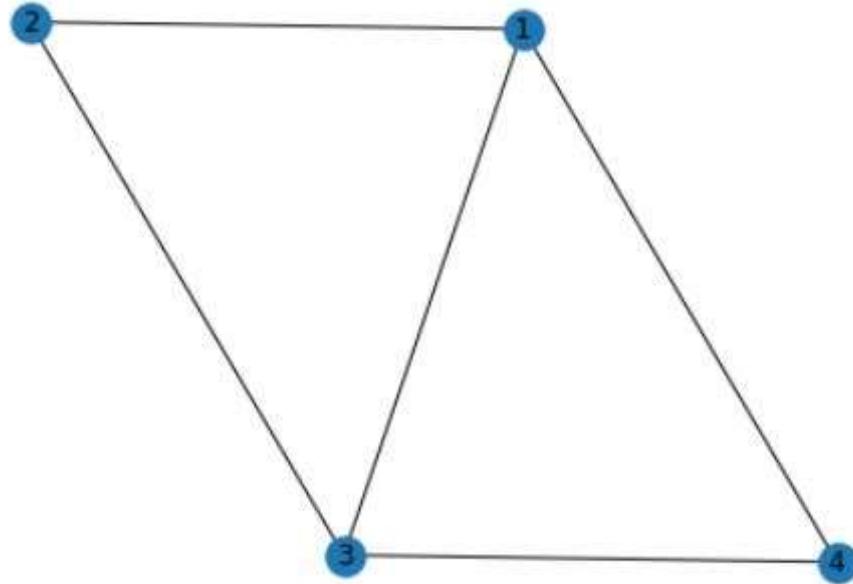
Six Degrees of Separation : Meet your favourites - Part 01 (unit? unit=188&lesson=203)

Six Degrees of Separation : Meet your favourites - Part 02 (unit? unit=188&lesson=204)

Six Degrees of Separation : Meet your favourites -

6) How many neighbors does node 4 have?

1 point



- 1
- 2
- 3
- 4

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
2

7) While calculating the area of a state, how can we increase the accuracy of the calculated area?

1 point

- By increasing the size of the image.
- By increasing the number of points.
- By decreasing the size of the image.
- By decreasing the number of points.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*By increasing the number of points.*

Part 03 (unit?  
unit=188&lesson=205)

8) How many nodes and edges does the following graph have?

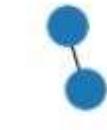
**1 point**

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

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

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

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



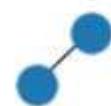
5,5

2,5

5,2

2,2

- Area  
Calculation -  
Don't Measure  
- Part 04 (unit?  
unit=188&lesson=210)



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

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
5,2

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

9) Which function of NLTK is used to make a frequency distribution of words?

**1 point**

- freqdist()
- FreqDist()
- frequency\_distribution
- freq\_dist()

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

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*FreqDist()*

- Quiz: Week 9:**  
**Assignment 9**  
**(assessment?**  
**name=322)**

- Week 9:**  
Programming

**Assignment 1**

(/noc22\_cs122/progassigr  
name=323)

- Week 9:  
Programming  
Assignment 2  
(/noc22\_cs122/progassigr  
name=324)

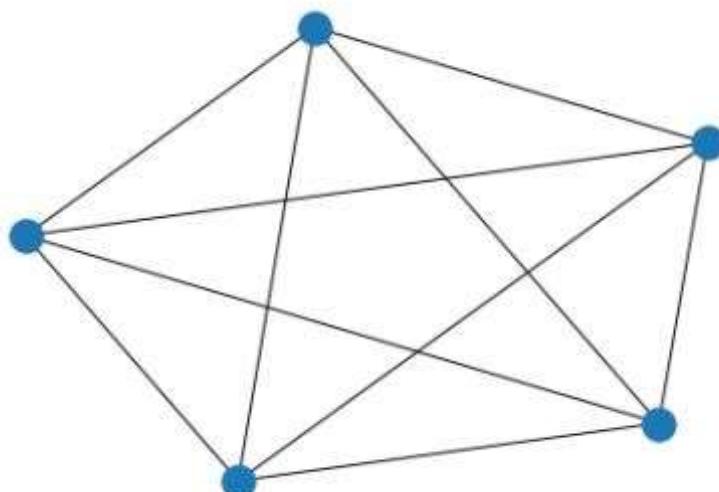
- Week 9:  
Programming  
Assignment 3  
(/noc22\_cs122/progassigr  
name=325)

**Week 10 ()****Week 11 ()****Week 12 ()****Text****Transcripts ()****Download  
Videos ()****Books ()****Live Session  
()**

**Programming  
test -  
Session 1  
(October 16  
2022 - 10 AM  
to 1 PM) ()**

**Programming  
test -  
Session 1  
(October 16  
2022 - 8 PM  
to 11 PM) ()**

**Problem  
Solving  
Session ()**

**10) Degree of separation for the following graph is****1 point**

- 1
- 2
- 3
- 5

Yes, the answer is correct.

Score: 1

Accepted Answers:

1



X



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(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 10: Assignment 10

The due date for submitting this assignment has passed.

Due on 2022-10-05, 23:59 IST.

Assignment submitted on 2022-09-26, 14:37 IST

1) Which math problem flames is related to?

**1 point**

- kadane's problem
- Josephus problem
- Conjecture Collatz
- Dijkstra Problem

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Josephus problem*

2) Which of the following is the task of s.upper()(Given the string name is 's')?

**1 point**

- It converts the first character into uppercase.
- It converts every vowel into uppercase.
- It converts every single character into uppercase.
- It converts consonants into uppercase.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*It converts every single character into uppercase.*

- FLAMES -  
Part 01 (unit?  
unit=214&lesson=215)
- FLAMES -  
Part 02 (unit?  
unit=214&lesson=216)

- FLAMES -  
Part 03 (unit?  
unit=214&lesson=217)

- FLAMES -  
Part 04 (unit?  
unit=214&lesson=218)

- FLAMES -  
Part 05 (unit?  
unit=214&lesson=219)

- FLAMES -  
Part 06 (unit?  
unit=214&lesson=220)

- Data  
Compression -  
Part 01 (unit?  
unit=214&lesson=221)

- Data  
Compression -  
Part 02 (unit?  
unit=214&lesson=222)

- Data  
Compression -  
Part 03 (unit?  
unit=214&lesson=223)

- Data  
Compression -  
Part 04 (unit?  
unit=214&lesson=224)

- Data  
Compression -  
Part 05 (unit?  
unit=214&lesson=225)

- Week 10  
Feedback  
Form: The Joy  
of Computing  
using Python  
(unit?  
unit=214&lesson=226)

- Quiz: Week  
10:  
Assignment  
10

3) What is the output of the following code?

1 point

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

- 'The Joy of Computing'
- ' Joy of C'
- 'Joy of C'
- Error

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*'The Joy of Computing'*

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

1 point

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

- [[3, 7]]
- [[4, 6]]
- [[5, 5]]
- [[4, 4]]

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
[[4, 6]]

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

1 point

```
1 s = 'I am amazed'
2 s.replace('a', 'z')
3 print(s)
```

- I zm zmzzed
- I zm zmazed
- I am zmzzed
- I am amazed

Yes, the answer is correct.

(assessment?  
name=326)

Score: 1

Accepted Answers:  
*I am amazed*

Week 10:

Programming  
Assignment 1  
(/noc22\_cs122/progassignment?name=327)

6) What are the consequences of image compression?

**1 point**

- Less size
- Lower quality
- More size
- Higher quality

Week 10:

Programming  
Assignment 2  
(/noc22\_cs122/progassignment?name=328)

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*Less size*  
*Lower quality*

Week 10:

Programming  
Assignment 3  
(/noc22\_cs122/progassignment?name=329)

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

**1 point**

```
1 s = 'JOC'
2 print('#'.join(s))
```

- JOC
- #J#O#C#
- #J#O#C
- J#O#C

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*J#O#C*

Books ()

Live Session  
()

Programming  
test -  
Session 1  
(October 16  
2022 - 10 AM  
to 1 PM) ()

8) How to take a transpose of a matrix?

**1 point**

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

Programming  
test -  
Session 1  
(October 16  
2022 - 8 PM  
to 11 PM) ()

Problem  
Solving  
Session ()

```
 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) Consider 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]])

```

What print(a+b) will produce?

- [[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:

```

[[9 11 23]
[14 36 28]]

```

10) what is the output of the following code?

**1 point**

```

1 import numpy as np
2
3 a = np.array([1,2,3,4,5,6,7,8,9,10,11,12])
4 print(a.reshape(3,4))
5

```

- [[ 1 2 3 4]
[ 5 6 7 8]
[ 9 10 11 12]]
- [[ 1 2 3]
[ 4 5 6]
[ 7 8 9]
[10 11 12]]
- Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

```

[[1 2 3 4]
[5 6 7 8]
[9 10 11 12]]

```



X



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

≡

Course  
outline

How does an  
NPTEL  
online  
course  
work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

# Week 11: Assignment 11

The due date for submitting this assignment has passed.

Due on 2022-10-12, 23:59 IST.

Assignment submitted on 2022-10-02, 13:25 IST

1) State True or False

**1 point**

We can get any element using CSS tag in selenium? (If CSS is applicable)

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

*True*

2) We can use the same web drivers for different browsers.

**1 point**

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

*False*

3) Which of the following method can be used to print the calendar of month march, 2022?

**1 point**

- calendar.month(2022, 3)
- calendar.month(3, 2022)

**Week 11 ()**

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

- calendar(3,2022)
- calendar(2022, 3)

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
`calendar.month(2022, 3)`

4) Which method will allow us to see the current date and time using datetime? **1 point**

- current()
- now()
- today()
- time()

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
`now()`

5) 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)`

6) Which of the following method is used to fetch an element by its class name? **1 point**

- get\_element\_by\_class\_name
- fetch\_element\_by\_class\_name
- find\_element\_by\_class\_name
- return\_element\_by\_class\_name

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
`find_element_by_class_name`

7) Which library allows us to work with timezones in python? **1 point**

- timezone
- pythontz
- pytz
- pythontimezone

Yes, the answer is correct.

|                                                                                     |                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="radio"/> Fun with Calendar - Part 07 (unit? unit=227&lesson=238)       | Score: 1<br>Accepted Answers:<br><i>pytz</i>                                                                                                                                                                                                                                                                                 |
| <input type="radio"/> Fun with Calendar - Part 08 (unit? unit=227&lesson=239)       | 8) which of the following functions can be used to find the coordinated universal time. <b>1 point</b><br><input checked="" type="radio"/> <i>datetime.datetime.utcnow()</i><br><input type="radio"/> <i>datetime.utc()</i><br><input type="radio"/> <i>datetime.utcnow()</i><br><input type="radio"/> <i>datetime.utc()</i> |
| <input type="radio"/> Fun with Calendar - Part 09 (unit? unit=227&lesson=240)       | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>datetime.datetime.utcnow()</i>                                                                                                                                                                                                                            |
| <input type="radio"/> Fun with Calendar - Part 10 (unit? unit=227&lesson=241)       | 9) By which statement can we come out of the loop? <b>1 point</b>                                                                                                                                                                                                                                                            |
| <input type="radio"/> Fun with Calendar - Part 11 (unit? unit=227&lesson=242)       | <input type="radio"/> <i>continue</i><br><input type="radio"/> <i>leave</i><br><input type="radio"/> <i>catch</i><br><input checked="" type="radio"/> <i>break</i>                                                                                                                                                           |
| <input type="radio"/> Fun with Calendar - Part 12 (unit? unit=227&lesson=243)       | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>break</i>                                                                                                                                                                                                                                                 |
| <b>Quiz: Week 11:</b><br><b>Assignment 11</b><br><b>(assessment? name=331)</b>      | 10) Which of the following will convert a string 's' containing numbers into an integer? <b>1 point</b><br><input type="radio"/> <i>str(s)</i><br><input type="radio"/> <i>float(s)</i><br><input checked="" type="radio"/> <i>int(s)</i><br><input type="radio"/> None of the above                                         |
| <b>Week 11:</b><br>Programming Assignment 1 (/noc22_cs122/progassignment? name=333) | Yes, the answer is correct.<br>Score: 1<br>Accepted Answers:<br><i>int(s)</i>                                                                                                                                                                                                                                                |
| <b>Week 11:</b><br>Programming Assignment 2 (/noc22_cs122/progassignment? name=334) |                                                                                                                                                                                                                                                                                                                              |
| <b>Week 11:</b><br>Programming Assignment 3 (/noc22_cs122/progassignment? name=335) |                                                                                                                                                                                                                                                                                                                              |
| <input type="radio"/> Week 11 Feedback Form: The Joy of Computing using Python      |                                                                                                                                                                                                                                                                                                                              |

(unit?  
unit=227&lesson=244)

**Week 12 ()**

**Text**

**Transcripts ()**

**Download**

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**Books ()**

**Live Session**

()

**Programming  
test -**

**Session 1**

**(October 16  
2022 - 10 AM  
to 1 PM) ()**

**Programming  
test -**

**Session 1**

**(October 16  
2022 - 8 PM  
to 11 PM) ()**

**Problem**

**Solving**

**Session ()**

X



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How does an  
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Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

## Week 12: Assignment 12

The due date for submitting this assignment has passed.

Due on 2022-10-19, 23:59 IST.

Assignment submitted on 2022-10-19, 17:08 IST

1) State True or False:

**1 point**

The number of people referring a person matters over who is referring a person.

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

*False*

2) Which of the following is true about page rank?

**1 point**

- 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.*

3) What is a drunkard's walk?

**1 point**

- Strategised walking

**Week 11 ()**

- Walking one step at a time.
- Random walking
- Zig zag walking

**Week 12 ()**

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

Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*Random walking*

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

4) Given a set of networks, which node in that network is considered as most impressive?

**1 point**

- Node with maximum incoming edges.
- Node with maximum visits.
- Node with minimum incoming edges.
- Node with minimum visits.

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

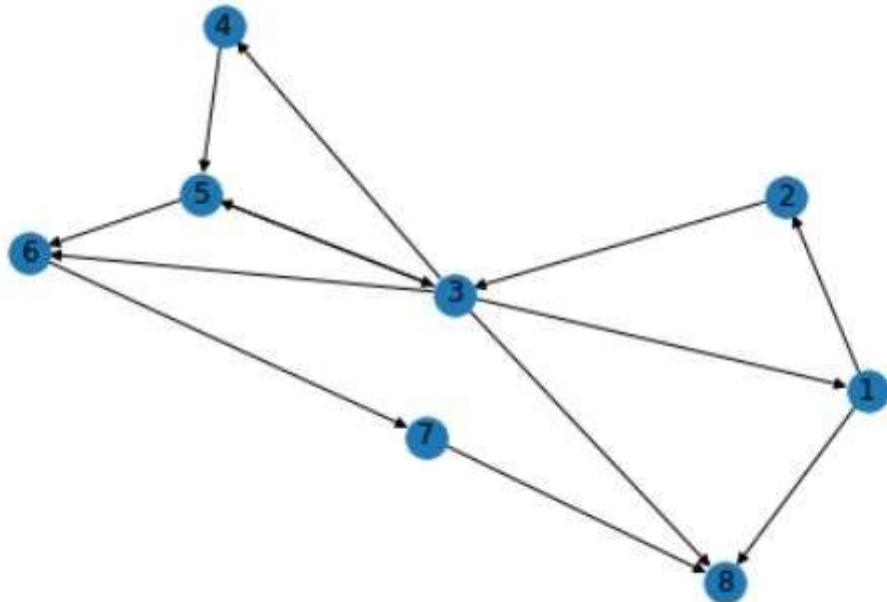
Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*Node with maximum visits.*

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

5) What will be the **G.out\_degree(8)** for the following graph(G)?

**1 point**

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



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

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

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

- 0
- 5
- 3
- 6

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

Yes, the answer is correct.  
Score: 1  
Accepted Answers:  
*0*

|                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 10 (unit?) unit=245&amp;lesson=255</li> </ul> | <p>6) Which of the following is true about undirected graphs?</p>                                                                                                                                                                                                                                                                                         | <b>1 point</b> |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 11 (unit?) unit=245&amp;lesson=256</li> </ul> | <p><input checked="" type="radio"/> One can come back and forth from one node to another using a single edge.<br/> <input type="radio"/> One can only go forward from one node to another using a single edge.<br/> <input type="radio"/> One can go to any node from one node using one edge.<br/> <input type="radio"/> None of the above.</p>          |                |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 12 (unit?) unit=245&amp;lesson=257</li> </ul> | <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> <i>One can come back and forth from one node to another using a single edge.</i></p>                                                                                                                                                                                             |                |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 13 (unit?) unit=245&amp;lesson=258</li> </ul> | <p>7) which of the following statements will choose a random node from graph A?</p>                                                                                                                                                                                                                                                                       | <b>1 point</b> |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 14 (unit?) unit=245&amp;lesson=259</li> </ul> | <p><input type="radio"/> random.choices(A)<br/> <input type="radio"/> random.choices(A.nodes())<br/> <input checked="" type="radio"/> random.choice(A.nodes())<br/> <input type="radio"/> random.choice(A)</p>                                                                                                                                            |                |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 15 (unit?) unit=245&amp;lesson=260</li> </ul> | <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> <i>random.choice(A.nodes())</i></p>                                                                                                                                                                                                                                              |                |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Page Rank - How does Google Work ? - Part 16 (unit?) unit=245&amp;lesson=261</li> </ul> | <p>8) which of the following is not true about collatz conjecture?</p>                                                                                                                                                                                                                                                                                    | <b>1 point</b> |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Collatz Conjecture - Part 01 (unit?) unit=245&amp;lesson=262</li> </ul>                 | <p><input checked="" type="checkbox"/> Bigger the number, larger the steps it would take to converge.<br/> <input type="checkbox"/> The number of steps is independent of the number.<br/> <input checked="" type="checkbox"/> Collatz conjecture will always converge.<br/> <input type="checkbox"/> Collatz conjecture might or might not converge.</p> |                |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Collatz Conjecture - Part 02 (unit?) unit=245&amp;lesson=263</li> </ul>                 | <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> <i>Bigger the number, larger the steps it would take to converge.</i><br/> <i>Collatz conjecture will always converge.</i></p>                                                                                                                                                   |                |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> JOC Conclusion (unit?) unit=245&amp;lesson=264</li> </ul>                               | <p>9) In collatz conjecture, if a number is even then what should be the next step?</p>                                                                                                                                                                                                                                                                   | <b>1 point</b> |
| <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Quiz: Week 12: Assignment</li> </ul>                                                    | <p><input checked="" type="radio"/> Divide it by 2<br/> <input type="radio"/> Multiply it by 3<br/> <input type="radio"/> Multiply it by 3 then add 1<br/> <input type="radio"/> Divide it by 2 then add 1</p>                                                                                                                                            |                |
|                                                                                                                                                                 | <p>Yes, the answer is correct.<br/> Score: 1<br/> Accepted Answers:<br/> <i>Divide it by 2</i></p>                                                                                                                                                                                                                                                        |                |
|                                                                                                                                                                 | <p>10) The collatz conversion of 10 looks like</p>                                                                                                                                                                                                                                                                                                        | <b>1 point</b> |
|                                                                                                                                                                 | <p><input checked="" type="radio"/> 10 5 16 8 4 2 1<br/> <input type="radio"/> 10 22 11 8 4 2 1</p>                                                                                                                                                                                                                                                       |                |

**12**  
**(assessment?**  
**name=332)**

- 10 5 16 8 4 2  
 None of the above

**Week 12:**  
Programming  
Assignment 1  
(/noc22\_cs122/progassignment?  
name=336)

Yes, the answer is correct.  
Score: 1

Accepted Answers:

10 5 16 8 4 2 1

**Week 12:**  
Programming  
Assignment 2  
(/noc22\_cs122/progassignment?  
name=337)

**Week 12:**  
Programming  
Assignment 3  
(/noc22\_cs122/progassignment?  
name=338)

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

**Text**

**Transcripts ()**

**Download**  
**Videos ()**

**Books ()**

**Live Session**  
(  
)

**Programming**  
**test -**  
**Session 1**  
**(October 16**  
**2022 - 10 AM**  
**to 1 PM) ()**

**Programming**  
**test -**  
**Session 1**  
**(October 16**  
**2022 - 8 PM**  
**to 11 PM) ()**

**Problem  
Solving  
Session ()**