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 telegram id @Ak4Gp



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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?
unit=17&lesson=22)

Week 1: Assignment 1

The due date for submitting this assignment has passed.

Due on 2021-08-18, 23:59 IST.

Assignment submitted on 2021-07-10, 19:22 IST

- 1) What is the value of var after double clicking on the below block of code in scratch? **1 point**



- 7.5
- 5
- 3
- 50

Yes, the answer is correct.
Score: 1

Accepted Answers:

5

- 2) Choose the odd one out. wait, repeat, forever, move

1 point

- wait
- repeat
- forever
- move

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)

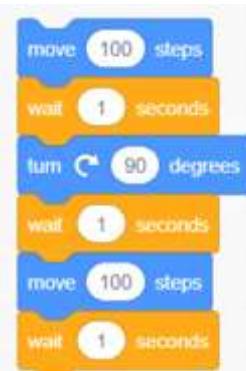
Scratch : Animation 3 (unit?
unit=17&lesson=34)

More on Scratch (unit?)

Yes, the answer is correct.
Score: 1

Accepted Answers:
move

3) How far will the sprite be from the initial position after executing this block of code? **1 point**



141.42 steps

100 steps

10 steps

200 steps

Yes, the answer is correct.

Score: 1

Accepted Answers:

141.42 steps

4) What is the name of the command used to reshow the hidden sprite? **1 point**

reappear

show

undo hide

visible

Yes, the answer is correct.

Score: 1

Accepted Answers:

show

5) The command used to make the sprite rotate by a certain degree is ? **1 point**

turn

rotate

revolve

bend

Yes, the answer is correct.

Score: 1

Accepted Answers:

turn

6) The command used to delay the sprite by a few seconds is _____ **1 point**

wait

unit=17&lesson=35)

- hold
- stop
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

wait

7) What will the sprite recite when the below block of code is executed?

1 point



- All even numbers from 1 to 100
- All even numbers from 1 to 200
- All odd numbers from 1 to 100
- All odd numbers from 1 to 200

Yes, the answer is correct.

Score: 1

Accepted Answers:

All odd numbers from 1 to 200

8) Which of the following does not belong to the motion command ?

1 point

- move
- turn
- glide
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

9) What is the command to increase the size of the sprite?

1 point

- increase size
- change size by
- expand
- zoom in

**Programming
test -
Session 2
(April 17
2022-8 PM to
11 PM) ()**

Yes, the answer is correct.

Score: 1

Accepted Answers:

change size by

10) When will the sprite stop moving when this block of code is executed ?

1 point



- Never
- It will stop after a while
- It will stop after 100 rounds
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Never

X



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(course)

≡

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 2021-08-18, 23:59 IST.

Assignment submitted on 2021-08-03, 11:11 IST

1) What will be the output for the following program if the user gives an input value of 3 **1 point** to it?

```
c= input("Enter a number")
print(c*5)
```

- 15
- 33333
- Error message
- 555

Yes, the answer is correct.
Score: 1

Accepted Answers:
33333

2) Which of these statements in python will throw anerror when executed? **1 point**

- print("Hello")
- print('Hello')
- print(" 'Hello' ")
- print(" "Hello" ")

- Understanding Variables in Python (unit? unit=37&lesson=42)
- Executing a sequence of instructions in the Console (unit? unit=37&lesson=43)
- Writing your First Program (unit? unit=37&lesson=44)
- Taking inputs from the user (unit? unit=37&lesson=45)
- Discount Calculation (unit? unit=37&lesson=46)
- Motivation to if condition (unit? unit=37&lesson=47)
- A reminder on how to deal with numbers (unit? unit=37&lesson=48)
- Understanding if condition's working (unit? unit=37&lesson=49)
- Realizing the importance of syntax and indentation (unit? unit=37&lesson=50)
- Introductions to loops (unit? unit=37&lesson=51)
- Loops: Sum of numbers (unit? unit=37&lesson=52)
- Loops: Sum of numbers

Yes, the answer is correct.
Score: 1

Accepted Answers:
`print("Hello")`

- 3) What will be the output of the following code when executed?

1 point

```
for i in range(3,30,3):
    print (i)
```

- It will print numbers from 3 to 30
- It will print multiples of 3 till 30
- It will print multiples of 3 till 27
- It will print 3 thirty times

Yes, the answer is correct.
Score: 1

Accepted Answers:
It will print multiples of 3 till 27

- 4) What will the output of the following code be when executed?

1 point

```
c=30
a=4
print(c/a)
print(c//a)
```

- 7.5
- 7
- 7.5
- 7
- 7
- 7.5
- 2

Yes, the answer is correct.
Score: 1

Accepted Answers:

7.5
7

(continued)
 (unit?
 unit=37&lesson=53)

- Loops:
 Multiplication
 Tables (unit?
 unit=37&lesson=54)
- Introduction to
 While Loop
 (unit?
 unit=37&lesson=55)

Quiz: Week 2:
Assignment 2
(assessment?
name=283)

- Week 2:
 Programming
 Assignment 1 -
 Hello World!
 (/noc21_cs75/progassignment?
 name=290)

- Week 2:
 Programming
 Assignment 2 -
 Square of a
 number
 (/noc21_cs75/progassignment?
 name=293)

- Week 2:
 Programming
 Assignment 3 -
 Discount
 (/noc21_cs75/progassignment?
 name=294)

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

Week 3 ()

week 4 ()

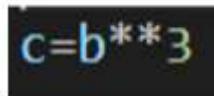
Week 5 ()

Week 6 ()

Week 7 ()

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

1 point



```
c=b**3
```

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

Cube of b

OR

It will throw an error

- 6) Python was named after the television show Monty Python's Flying Circus .

1 point

- False
- True

Yes, the answer is correct.

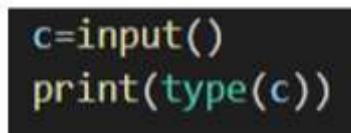
Score: 1

Accepted Answers:

True

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

1 point



```
c=input()
print(type(c))
```

- < class 'str' >
- < class 'int' >
- < class 'number' >
- < class 'variable' >

Yes, the answer is correct.

Score: 1

Accepted Answers:

< class 'str' >

- 8) What will the output of the following program be?

0 points

- It will show an error
- Hello! Welcome to Joy of Computing using Python course
- 47
- a+b

No, the answer is incorrect.

Score: 0

[Week 8 \(\)](#)[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Week 12 \(\)](#)[Text](#)[Transcripts \(\)](#)[Download](#)[Videos \(\)](#)[Live Session](#)[\(\)](#)[Programming test -](#)[Session 1](#)[\(April 17](#)[2022-10AM](#)[to 1 PM\) \(\)](#)[Programming test -](#)[Session 2](#)[\(April 17](#)[2022-8 PM to](#)[11 PM\) \(\)](#)

Accepted Answers:

Hello! Welcome to Joy of Computing using Python course

9) The python files will be saved with a .python extension

1 point False True

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

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

X



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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)

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 2021-08-25, 23:59 IST.

Assignment submitted on 2021-08-09, 17:28 IST

- 1) List items are ordered, changeable, and do not allow duplicate values. State true or **1 point**
false

True

False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

- 2) What will the output of the following program be? **1 point**

```
a=[1,2,3,4,5,6,7,8,9,10]
for i in range(0,len(a),2):
    print(a[i])
```

All numbers from 1 to 10

All even numbers from 1 to 10

All odd numbers from 1 to 10

It will give an error

Loops and Conditionals : Fizzbuzz 01 (unit? unit=57&lesson=62)

Loops and Conditionals : Fizzbuzz 02 (unit? unit=57&lesson=63)

Crowd Computing - Just estimate 01 (unit? unit=57&lesson=64)

Crowd Computing - Just estimate 02 (unit? unit=57&lesson=65)

Crowd Computing - Just estimate 03 (unit? unit=57&lesson=66)

Crowd Computing - Just estimate 04 (unit? unit=57&lesson=67)

Crowd Computing - Just estimate 05 (unit? unit=57&lesson=68)

Crowd Computing - Just estimate 06 (unit? unit=57&lesson=69)

Permutations - Jumbled Words 01 (unit? unit=57&lesson=70)

Permutations - Jumbled Words 02 (unit? unit=57&lesson=71)

Yes, the answer is correct.
Score: 1

Accepted Answers:

All odd numbers from 1 to 10

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

1 point

```
a=[1,2,3,4,5,6,7,8,9,10]
a.insert(-3, 999)
print(a)
```

- [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
- [1, 2, 3, 4, 5, 6, 7, 999, 8, 9, 10]
- It will give an error
- [999, 0, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Yes, the answer is correct.
Score: 1

Accepted Answers:

[1, 2, 3, 4, 5, 6, 7, 999, 8, 9, 10]

4) Which command will insert the new element to the list at the end? Consider the name of the list to be Shopping and the new element to be inserted is "oil".

1 point

- Shopping.append("oil")
- Shopping.insert(len(Shopping),"oil")
- Both option a and b
- Shopping.add("oil")

Yes, the answer is correct.
Score: 1

Accepted Answers:

Both option a and b

5) Which method is to find out how many times a particular list element occurs?

1 point

- count
- repeat
- unique
- sum

Yes, the answer is correct.
Score: 1

Accepted Answers:

count

6) Which of these methods is used to find the mean of the below defined list? a = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

1 point

- statistics.median(a)
- stats.median(a)

Permutations -
Jumbled
Words 03
(unit?
unit=57&lesson=72)

- median(a)
- average(a)

Yes, the answer is correct.
Score: 1

Accepted Answers:
statistics.median(a)

7) Which of these following statements is true regarding trimmed mean? **1 point**

- It removes a small percentage of the largest and smallest values before calculating the mean
- Trimmed mean is also known as truncated mean
- Both a and b are true
- Trimmed mean removes a small percentage of largest value before calculating the mean

Yes, the answer is correct.
Score: 1

Accepted Answers:
Both a and b are true

8) What is the output of the following program? **1 point**

```
a="Hello"
print("+" . join(a))
```

Quiz: Week 3:
Assignment 3
(assessment?
name=284)

Week 3:
Programming
Assignment 1 -
Area of a
rectangle
(/noc21_cs75/progassignment?
name=296)

- H+e+|+l+o
- +Hello+
- +H+e+|+l+o
- +Hello

Yes, the answer is correct.
Score: 1

Accepted Answers:
H+e+|+l+o

Week 3:
Programming
Assignment 2 -
Smallest and
Largest
(/noc21_cs75/progassignment?
name=297)

9) Which of these methods is used to jumble a given word and give an output
separated by a “ , ” symbol? (Consider the string to be stored in variable a) **1 point**

- “ , ”.join(random.sample(a, len(a)))
- random.sample(a, len(a)).join(“ , ”)
- random.sample(a, len(a))
- It is not possible to jumble a word

Yes, the answer is correct.
Score: 1

Accepted Answers:
“ , ”.join(random.sample(a, len(a)))

Week 3
Feedback
Form: The Joy
of Computing
using Python

10) Which method can be used to remove an element at a particular index from the list? **1 point**

(unit?
unit=57&lesson=77)

week 4 ()

- pop()
- delete()
- discard()
- The element cannot be removed

Week 5 ()

Yes, the answer is correct.
Score: 1

Accepted Answers:

pop()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Text

Transcripts ()

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Videos ()**

**Live Session
()**

**Programming
test -
Session 1
(April 17
2022-10AM
to 1 PM) ()**

**Programming
test -
Session 2
(April 17
2022-8 PM to
11 PM) ()**

X



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Course
outline

How does an
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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 2021-09-01, 23:59 IST.

Assignment submitted on 2021-08-18, 07:09 IST

1) What is the magic constant or magic sum of a magic square of size 11? **1 point**

- 671
- 121
- It is not possible to find
- Magic squares only exists for even size

Yes, the answer is correct.

Score: 1

Accepted Answers:

671

2) In magic square, the first number will be stored at position $(n/2, n-1)$. Let this position be (i, j) . The second number will be stored at position $(i+1, j-1)$. State whether the following statement is true or false. **1 point**

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

3) The below given matrix is a magic square. State whether the following statement is true or false **1 point**

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

20	12	4	45	37	29	28
11	3	44	36	35	27	19
2	43	42	34	26	18	10
49	41	33	25	17	9	1
40	32	24	16	8	7	48
31	23	15	14	6	47	39
22	21	13	5	46	38	30

04 (unit?
unit=78&lesson=83)

05 (unit?
unit=78&lesson=84)

06 (unit?
unit=78&lesson=85)

07 (unit?
unit=78&lesson=86)

08 (unit?
unit=78&lesson=87)

09 (unit?
unit=78&lesson=88)

10 (unit?
unit=78&lesson=89)

11 (unit?
unit=78&lesson=90)

12 (unit?
unit=78&lesson=91)

13 (unit?
unit=78&lesson=92)

14 (unit?
unit=78&lesson=93)

False

True

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

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

1 point

```
l=[31, 0, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]
a=1900
if(a%4==0 and a%100!=0 or a%400==0):
    l.insert(1,29)
else:
    l.insert(1,28)

print("In the year 1900, february has",l[1],"days")
```

In the year 1900, february has 28 days

In the year 1900, february has 29 days

In the year 1900, february has 0 days

It will throw an error

Yes, the answer is correct.

Score: 1

Accepted Answers:

In the year 1900, february has 28 days

5) Consider today's date to be 06-06-2021 and the day after tomorrow is tuesday..

1 point

What will be the output of the following program?

(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=295)

● Week 4:
Programming
Assignment 1 -
Factorial
(/noc21_cs75/progassignment?
name=299)

```
import datetime
x=datetime.datetime.now()
print(x.strftime("%W"))
print(x.strftime("%w"))
```



22



0



0



22



Monday



29



Tuesday

Yes, the answer is correct.

Score: 1

Accepted Answers:

22

0

6) What will the following program do?

1 point

```
a=input("Enter any positive number\n")
p=int(a)
sum=0
while(p!=0):
    sum=sum+p%10
    p/=10

print(sum)
```

Print the sum of digits of a given number

Print the number by dividing it by 10

Print the reverse of the number

None of the above

Week 4:
Programming
Assignment 2 -
Multiples
(/noc21_cs75/progassignment
name=300)

Yes, the answer is correct.
Score: 1

Accepted Answers:
Print the sum of digits of a given number

Which program will choose an element from the below list and display it in jumbled **1 point** order?

Week 4:
Programming
Assignment 3 -
Arrangements
(/noc21_cs75/progassignment
name=301)

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

```
import random
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

[Week 5 \(\)](#)

[Week 6 \(\)](#)

[Week 7 \(\)](#)

[Week 8 \(\)](#)

[Week 9 \(\)](#)

[Week 10 \(\)](#)

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[Programming
test -
Session 1
\(April 17
2022-10AM
to 1 PM\) \(\)](#)

```
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

```
import random
l=["abc","cde","efg","hij"]
a=random.Random(1)
print(a)
print("".join(random.sample(a,len(a))))
```

```
import random
l=["abc","cde","efg","hij"]
a=random.sample(l)
print(a)
print("".join(random.choice(a,len(a))))
```

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

Programming test -
Session 2
(April 17
2022-8 PM to
11 PM) ()

```
import random
l=["abc","cde","efg","hij"]
a=random.choice(l)
print("".join(random.sample(a,len(a))))
```

- 8) There are a total of 100 cards of 25 different colors. How many minimum numbers **1 point** of draws are required to guarantee that at least two drawn cards have the same color?

- 100
- 26
- 25
- 50

Yes, the answer is correct.

Score: 1

Accepted Answers:

26

- 9) What does the following code snippet in python compute? **1 point**

```
a=0
b=1
print(a,end=" ")
for i in range(0,15,1):
    print(b,end=" ")
    a,b=b,a+b
```

- Factorial of numbers from 0 to 15
- Fibonacci series
- None
- Sequence of numbers from 0 to 15

Yes, the answer is correct.

Score: 1

Accepted Answers:

Fibonacci series

- 10) Dobble game has a deck of 55 cards, each printed with eight different symbols. Any **1 point** two cards always share one matching symbol only. State whether the above statement is true or false

- True

False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

X



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Course outline

How does an
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online
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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 2021-09-01, 23:59 IST.

Assignment submitted on 2021-08-23, 22:12 IST

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

1 point

```
dict1={
    "ID": "0121",
    "Name": "zzz"
}
dict2={
    "Name": "zzz"
}

dict2.update({"ID": "0121"})
if(dict1==dict2):
    print("They are equal")
else:
    print("They are not equal")
```

- They are equal
- They are not equal
- It will throw an error

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

They are not equal

- 2) What will the output of the following program be?

1 point

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

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

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

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

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

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

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

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

```
dictA={  
    "name":"Joy of computing",  
    "Length":"12 Weeks",  
    "Professor_name": "Dr Sudarshan Iyengar",  
    "Language": "Python"  
}  
dictB={  
}  
dictB.update(dictA)  
for x,y in dictB.items():  
    print(x,y)
```

name Joy of computing

Length 12 Weeks

Professor_name Dr Sudarshan Iyengar

Language Python

{'name': 'Joy of computing', 'Length': Sudarshan Iyengar', 'Language': 'Python'}

It will throw an error

dictB will be empty

Yes, the answer is correct.
Score: 1

Accepted Answers:

name Joy of computing

Length 12 Weeks

Professor_name Dr Sudarshan Iyengar

Language Python

- 3) A file with the .wav or .wave file extension is a Waveform Audio File Format. True or **1 point**
False?

False

True

Yes, the answer is correct.
Score: 1

Accepted Answers:

True

- 4) In the Monty Hall problem, under the standard assumptions, contestants who switch **1 point**
have a ___ chance of winning the car, while contestants
who stick to their initial choice have only ___ chance.

1/2, 1/2

2/3, 1/3

questions game 03 (unit? unit=104&lesson=117)	<input type="radio"/> 1/3, 2/3 <input type="radio"/> 1/3, 1/3	
● Sorting and Searching : 20 questions game 04 (unit? unit=104&lesson=118)	Yes, the answer is correct. Score: 1 Accepted Answers: 2/3, 1/3	
● Sorting and Searching : 20 questions game 05 (unit? unit=104&lesson=119)	5) In the game ‘Rock, Paper and Scissor’ , if player1 enters 123478 and player2 enters 1 point 347653 with the secrets bits as 3 and 5 respectively, then who wins the game? (Assume that player1_list=[“rock”, “paper”, “scissor”] and player2_list=[“paper”, “scissor”, “rock”])	
○ Sorting and Searching : 20 questions game 06 (unit? unit=104&lesson=120)	<input type="radio"/> Player1 wins the game <input type="radio"/> Player2 wins the game <input checked="" type="radio"/> It will be a draw <input type="radio"/> Insufficient data	
● Sorting and Searching : 20 questions game 07 (unit? unit=104&lesson=121)	Yes, the answer is correct. Score: 1 Accepted Answers: <i>It will be a draw</i>	
○ Sorting and Searching : 20 questions game 08 (unit? unit=104&lesson=122)	6) Which is the fastest sorting algorithm? 1 point	
● Quiz: Week 5: Assignment 5 (assessment? name=302)	<input type="radio"/> Bubble Sort <input type="radio"/> Bucket Sort <input checked="" type="radio"/> Quick Sort <input type="radio"/> Insertion Sort	
● Week 5: Programming Assignment 1 - k times (/noc21_cs75/progassignment? name=303)	Yes, the answer is correct. Score: 1 Accepted Answers: <i>Quick Sort</i>	
● Week 5: Programming Assignment 2 - kth Largest (/noc21_cs75/progassignment? name=304)	7) Which of these following statements are true with respect to the program below? 1 point	
● Week 5: Programming Assignment 3 - Cumulative sum (/noc21_cs75/progassignment? name=305)	<pre>import random a=[1,2,3,4,5,6] sum=0 for i in range (0,2): sum=sum+random.choice(a) print(sum)</pre> <input type="radio"/> The value of sum will always be between 1 and 11 <input checked="" type="radio"/> The value of sum will be from 2 to 12 <input type="radio"/> The value of sum will be within 12 <input type="radio"/> The maximum value of sum cannot exceed 6	

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

Week 6 ()**Week 7 ()****Week 8 ()****Week 9 ()****Week 10 ()****Week 11 ()****Week 12 ()****Text Transcripts ()****Download Videos ()****Live Session ()****Programming test - Session 1 (April 17 2022-10AM to 1 PM) ()****Programming test - Session 2 (April 17 2022-8 PM to 11 PM) ()**

Accepted Answers:
The value of sum will be from 2 to 12

8) What is the average time complexity of binary search if the numbers are arranged in **1 point** descending order and the search is unsuccessful?

- $\log_2(n+1)$
- $\log_2(n)$
- $\log_2(n^2)$
- None of the following

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 $\log_2(n)$

9) What Is the output of the following program? **0 points**

```
l=[ ]*100
for i in range (100):
    l.append(i+1)
flag=0
k=108
for i in range(100):
    if(k==l[i]):
        print("Element is present at position ",i)
        flag=1
        break
if(flag==0):
    print("Element is not present in the given list")
```

- 100
- 0
- 108
- 109

No, the answer is incorrect.
 Score: 0

Accepted Answers:
100

10) Will the following program give an error? **1 point**

```
a=[ "1", "2", "3", "4", "5"]  
fun=len  
print(fun(a))
```

Yes

No

Yes, the answer is correct.

Score: 1

Accepted Answers:

No

X



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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 ()

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 2021-09-08, 23:59 IST.

Assignment submitted on 2021-09-02, 06:42 IST

1) If PYTHON is SVWERK, what is COMPUTING?

1 point

- FLPMXQLKJ
- FRPSXWLQJ
- Insufficient data
- ZLJMSQFKD

Yes, the answer is correct.

Score: 1

Accepted Answers:

FLPMXQLKJ

2) What operation will the following program do?

1 point

```
import string
s="hello"
n=""
for i in range(len(s)):
    c=int(ord(s[i])-26)
    n=n+chr(c)
print(n)
```

- Shift the letter by 6 to the right and then print the capital of that letter.

(unit?
unit=124&lesson=126)

- Shift the letter by 6 to the left and then print the capital of that letter.
- Shift the letter by 6 to the right and then print the small letter.
- Shift the letter by 6 to the left and then print the small letter.

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

Shift the letter by 6 to the right and then print the capital of that letter.

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

3) What is the output of the following program?

1 point

```
import string
s="hello, and welcome to joy of computing course"
if(s.capitalize()==s[0:1].upper()+s[1:len(s)]):
    print("True")
else:
    print("False")
```

- False
- True

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

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

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

1 point

```
import string
s="hello, and welcome to joy of computing course"
print(s[::-2].replace("e","l"))
```

- ll,adwlolt o fcmuigcus
- hlo n lcm ojyo optn orl
- hello, and welcome to jy of computing course
- It will show an error

○ Tic Tac Toe -
Down the
memory Lane

02 (unit?
unit=124&lesson=131)

Yes, the answer is correct.

Score: 1

Accepted Answers:

hlo n lcm ojyo optn orl

○ 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)

5) The array object in NumPy is called ndarray and NumPy is faster than Lists. State whether the above statement is true or false.

1 point

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

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=307)

Week 6:
Programming
Assignment 1 -
Matrix
(/noc21_cs75/progassignment?
name=309)

Week 6:
Programming
Assignment 2 -
Number
Triangle I
(/noc21_cs75/progassignment?
name=310)

Week 6:
Programming
Assignment 3 -
Symmetric
Matrix
(/noc21_cs75/progassignment?
name=311)

Week 7 ()

Week 8 ()

6) What is the output of the following program? (Assuming that k and n are any 2 positive numbers)

```
def fun(k,n):
    if(n==0):
        return 1
    else:
        return(k*fun(k,n-1))

print(fun(k,n))
```

- It will find the value of k raised to the power of k
- It will find the value of n raised to the power of k
- It will find the value of k raised to the power of n
- It will find the value of n raised to the power of n

Yes, the answer is correct.

Score: 1

Accepted Answers:

It will find the value of k raised to the power of n

7) The output of the following program is as follows

```
[[ 1 4 13]
 [ 2 2 9]
 [ 3 3 6]]
```

What should be written in the empty blank in the following program to get the above desired output?

```
import numpy
arr=numpy.array([[1,2,3],[4,2,3],[13,9,6]])
print(.....)
```

- numpy.transpose(arr)
- arr.transpose()
- Either a or b options can be used
- arr.reverse()

Yes, the answer is correct.

Score: 1

Accepted Answers:

Either a or b options can be used

8) Which of the following programs will calculate the factorial of a given number?

1 point

1 point

1 point

[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Week 12 \(\)](#)[Text](#)[Transcripts \(\)](#)[Download Videos \(\)](#)[Live Session \(\)](#)[Programming test - Session 1 \(April 17 2022-10AM to 1 PM\) \(\)](#)[Programming test - Session 2 \(April 17 2022-8 PM to 11 PM\) \(\)](#)

```
def fact(n):
    if(n==0):
        return 1
    else:
        return(n*fact(n+1))

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n))
```

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,0))
```

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,1))
```

 None of the following

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,1))
```

OR

None of the following

9) In tic tac toe game, if player 1 starts the game by marking 'X' in the center of the matrix, then he has more chances of winning. State whether the above given statement is true or false. **1 point**

- True
 False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

10) Recursive programs are faster than the iterative programs. State whether the following statement is true or false. **1 point**

- True
 False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

X



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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 ()

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 2021-09-15, 23:59 IST.

Assignment submitted on 2021-09-07, 16:58 IST

1) What will the following program do?

1 point

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

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

Creates a new file called snakeimage.png with the same content as in the snakesandladders.png

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

1 point

- CSV stands for Comma Separated Values
- It's a simple file format used to store tabular data, such as spreadsheet or database
- The use of the commas a field separator is the source of the name for this file format

on the Board - Part 01 (unit? unit=143&lesson=145)	<input checked="" type="radio"/> None of the above Yes, the answer is correct. Score: 1
<input type="radio"/> Snakes and Ladders - Not on the Board - Part 02 (unit? unit=143&lesson=146)	Accepted Answers: <i>None of the above</i> 3) If a player has a score of 87 and rolls the dice in the snake and ladder game. If he 1 point gets a 5, what will be the player's position next considering the dictionary associated with the game?
<input type="radio"/> Snakes and Ladders - Not on the Board - Part 03 (unit? unit=143&lesson=147)	dict={ 92:79, 95:51, 87:18, 62:22, 57:40, 52:29, 17:13, 80:100, 90:91, 75:86, 58:77, 28:84, 8:30, 3:21 }
<input type="radio"/> Snakes and Ladders - Not on the Board - Part 04 (unit? unit=143&lesson=148)	
<input type="radio"/> Snakes and Ladders - Not on the Board - Part 05 (unit? unit=143&lesson=149)	
<input type="radio"/> Snakes and Ladders - Not on the Board - Part 06 (unit? unit=143&lesson=150)	<input type="radio"/> 79 <input type="radio"/> 97 <input type="radio"/> 92 <input checked="" type="radio"/> The player cannot be in position number 87
<input type="radio"/> Spiral Traversing - Let's Animate (unit? unit=143&lesson=151)	Yes, the answer is correct. Score: 1
<input type="radio"/> Spiral Traversing - Let's Animate - Part 01 (unit? unit=143&lesson=152)	Accepted Answers: <i>The player cannot be in position number 87</i> 4) What will be the output of the following program? 1 point
<input type="radio"/> Spiral Traversing - Let's Animate - Part 02 (unit? unit=143&lesson=153)	
<input type="radio"/> Spiral Traversing - Let's Animate - Part 03 (unit? unit=143&lesson=154)	
<input type="radio"/> Spiral Traversing -	

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)

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

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

Week 7:
Programming

```
R = 4
C = 5

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

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

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

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

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

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

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

1 point

True

False

Yes, the answer is correct.

Score: 1

Assignment 2 -

Number

Triangle II

(/noc21_cs75/progassignment?unit=143&assessment=314)

Accepted Answers:

True

6) What is the output of the following program?

1 point

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

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

Week 7:

Programming

Assignment 3 -

Lower

Triangular

Matrix

(/noc21_cs75/progassignment?unit=143&lesson=164)

name=314)

 Octagon Pentagon Nonagon Hexagon

Yes, the answer is correct.

Score: 1

Week 8 ()

Accepted Answers:

*Octagon***Week 9 ()**7) While using the turtle speed method, the speed value 1 is faster than speed value 0. **1 point**
State whether the above statement is true or false. True False

Yes, the answer is correct.

Score: 1

Week 12 ()

Accepted Answers:

*False***1 point**

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

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

Yes, the answer is correct.

Score: 1

Text Transcripts ()

Accepted Answers:

*Both b and c***Download Videos ()****Live Session ()**

()

Programming test -**Session 1****(April 17****2022-10AM****to 1 PM) ()****Programming****test -****Session 2****(April 17**9) Which of these packages allow us to plot data on google maps? **1 point** gmplot plot googleplot matplotlib.gmplot

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

gmplot

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

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

Both a and b

1 point

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 ()

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 2021-09-22, 23:59 IST.

Assignment submitted on 2021-09-21, 16:11 IST

1) Tuples are similar to lists in terms of indexing, nested objects and repetition but it is **1 point** immutable unlike lists. State whether the above statement is true or false.

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

2) Which of these following operations are not valid with respect to tuples? **1 point**

(Consider tuple names to be T1 and T2 with 5 elements in each of it)

- print(T1 + T2)*
- print(T1 * 3)*
- print(T1 [-4 : -1])*
- del T1 [1]*

Yes, the answer is correct.

Score: 1

Accepted Answers:

del T1 [1]

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

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

```
t=(1 , 2 , 3)
(a, b, c)=t
print(a,b,c)
```

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

- 1 2 3
- Error
- a b c
- t t t

Yes, the answer is correct.
Score: 1

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

Accepted Answers:
1 2 3

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

1 point

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

```
import random
i=random. randint(1,100)
if(i%3==0):
    print(i)
```

- 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)

- It generates a random number and prints it
- It generates a random number and doesn't do anything
- It will generate a random number and prints it
- It will generate a random number and prints it only if its a multiple of 3

Yes, the answer is correct.
Score: 1

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

Accepted Answers:
It will generate a random number and prints it only if its a multiple of 3

- 5) Which of these statements are false with respect to clahe?

1 point

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

- CLAHE is a variant of Adaptive histogram equalization (AHE) which takes care of over-amplification of contrast.
- CLAHE operates on small regions in the image, called tiles, rather than the entire image.
- The neighbouring tiles are then combined using bilinear interpolation by including the artificial boundaries.
- It is used to improve the contrast of images.

- Image
Processing -
Enhance your
images - Part

Yes, the answer is correct.
Score: 1

Accepted Answers:

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

The neighbouring tiles are then combined using bilinear interpolation by including the artificial boundaries.

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

6) What is the output of the following program? **1 point**

```
import matplotlib.pyplot as plt
x=[]
y=[]
for i in range (1,11):
    x.append(i)
    y.append(i)

x.reverse()
print(x)
print (y)
plt.plot(y,x)
plt.show()
```

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)

Linear graph with positive slope

Linear graph with negative slope

Non linear graph with positive slope

Non linear graph with negative slope

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

Yes, the answer is correct.

Score: 1

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

Accepted Answers:
Linear graph with negative slope

7) What should be filled in the blank in the given program to obtain the below desired **0 points** output?

Output :

	calories	duration
0	420	50
1	380	40
2	390	45

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

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

Week 8
Feedback
Form: The Joy
of Computing
using Python

(unit?
unit=165&lesson=187)

- Quiz: Week 8 : Assignment 8 (assessment? name=316)

- Week 8: Programming Assignment 1 - Palindrome (/noc21_cs75/progassignment? name=317)

- Week 8: Programming Assignment 2 - Anagrams (/noc21_cs75/progassignment? name=318)

- Week 8: Programming Assignment 3 - Pangram (/noc21_cs75/progassignment? name=319)

Week 9 ()

Week 10 ()

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Programming test - Session 1 (April 17 2022-10AM to 1 PM) ()

Programming test -

```
import pandas as tiger

data = {
    "calories": [420, 380, 390],
    "duration": [50, 40, 45]
}

myvar = _____

print(myvar)
```

- pandas.DataFrame(data)
 tiger.DataFrames(data)
 tiger.Series(data)
 pandas.Series(data)

No, the answer is incorrect.
Score: 0

Accepted Answers:
tiger.DataFrame(data)

8) VADER uses a combination of A sentiment lexicon is a list of lexical features which **1 point** are generally labeled according to their semantic orientation as either positive or negative. State whether the following statement is true or false.

- True
 False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

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

1 point

```
a=input()
if(a==a[::-1]):
    print(a)
```

- Prints the reverse of string a
 Prints the string only if its an anagram

Session 2
(April 17
2022-8 PM to
11 PM) ()

- Prints the string only if its a palindrome
- Error message

Yes, the answer is correct.
Score: 1

Accepted Answers:

Prints the string only if its a palindrome

10) If the compound score of a statement is 1.5. What can we infer from the compound **1 point** statement?

- It is an extremely positive statement
- It is an extremely negative statement
- It is a neutral statement
- Compound score cannot be 1.5

Yes, the answer is correct.
Score: 1

Accepted Answers:

Compound score cannot be 1.5

X



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How does an NPTEL online course work? ()

Week 0 ()

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Week 9 ()

Natural Language Processing - Author

Week 9 : Assignment 9

The due date for submitting this assignment has passed.

Due on 2021-09-29, 23:59 IST.

Assignment submitted on 2021-09-22, 20:31 IST

1) Which of these features of the texts are not analyzed by the NLP for attributing authorship? **1 point**

- Jaccard similarity
- Stop words
- Word Length
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

2) NetworkX can be used to solve large-scale problems that require faster approaches. **1 point**
State whether the above statement is true or false.

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

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

Stylometry
(unit?
unit=188&lesson=189)

```
import networkx as nx
g=nx.Graph()
g.add_edge('a','b', weight=.1)
g.add_edge('b','c',weight=1.5)
g.add_edge('a','c',weight=1.0)
g.add_edge('c','d',weight=2.2)
print(nx.shortest_path(g,'b','d'))
```

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

- ['b', 'c', 'd']
- ['b', 'a', 'c', 'd']
- It will give an error
- ['d', 'a', 'c', 'b']

Yes, the answer is correct.
Score: 1

Accepted Answers:
['b', 'c', 'd']

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

- 4) Consider the following statements.
- 1 point**
- (1) subgraph(G, nbunch) - induce subgraph of G on nodes in nbunch
 - (2) union(G1,G2) - graph union
 - (3) disjoint_union(G1,G2) - graph union assuming all nodes are same
 - (4) cartesian_product(G1,G2) - return Cartesian product graph

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

Which of the statements are correct with respect to the above operations?

- Only statements 1 and 2 are true
- Only statements 1 and 3 are correct
- All the above statements are correct
- Statements 1, 2 and 4 are correct

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

Yes, the answer is correct.
Score: 1
Accepted Answers:
Statements 1, 2 and 4 are correct

- 5) Which of these following statements are true?
- 1 point**

- Six degrees of separation is the idea that all people on average are six, or fewer, social connections away from each other
- Six degrees of separation was originally developed by Frigyes Karinthy
- It is also called six handshakes rule
- All of the above

● Natural
Language
Processing -
Author
Stylometry -
Part 06 (unit?
unit=188&lesson=195)

Yes, the answer is correct.
Score: 1
Accepted Answers:
All of the above

- 6) What does nltk stand for?
- 1 point**

- Natural Language toolkit

<ul style="list-style-type: none"> ● Natural Language Processing - Author Stylometry - Part 08 (unit? unit=188&lesson=197) 	<ul style="list-style-type: none"> <input type="radio"/> Neutral Language toolkit <input type="radio"/> Natural Linguistic toolkit <input type="radio"/> Neutral Linguistic toolkit 	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>Natural Language toolkit</i></p>
<ul style="list-style-type: none"> ● Natural Language Processing - Author Stylometry - Part 09 (unit? unit=188&lesson=198) 	<p>7) The Barabasi-Albert model is a model that generates _____ networks.</p>	<p>1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Scale-free networks <input type="radio"/> Scale networks
<ul style="list-style-type: none"> ● Natural Language Processing - Author Stylometry - Part 10 (unit? unit=188&lesson=199) 	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>Scale-free networks</i></p>	<p>8) The complete graph with n graph vertices has how many undirected edges?</p> <p>1 point</p>
<ul style="list-style-type: none"> ● Introduction to Networkx - Part 01 (unit? unit=188&lesson=200) 	<ul style="list-style-type: none"> <input checked="" type="radio"/> $n(n-1)/2$ <input type="radio"/> $n-1$ <input type="radio"/> $(n-1)/2$ <input type="radio"/> n 	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>$n(n-1)/2$</i></p>
<ul style="list-style-type: none"> ● Introduction to Networkx - Part 02 (unit? unit=188&lesson=201) 	<p>9) What will the following statement print?</p>	<p>1 point</p>
<ul style="list-style-type: none"> ● Six Degrees of Separation : Meet your favourites (unit? unit=188&lesson=202) 	<pre>print(im.getpixel(coordinate))</pre>	<ul style="list-style-type: none"> <input type="radio"/> Prints the coordinate of a particular pixel <input checked="" type="radio"/> Prints the pixel RGB value specified by coordinate variable that contains both x and y value <input type="radio"/> Error message
<ul style="list-style-type: none"> ● Six Degrees of Separation : Meet your favourites - Part 01 (unit? unit=188&lesson=203) 	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>Prints the pixel RGB value specified by coordinate variable that contains both x and y value</i></p>	<p>10) What is the output of the following program?</p> <p>1 point</p>
<ul style="list-style-type: none"> ● Six Degrees of Separation : Meet your favourites - Part 02 (unit? unit=188&lesson=204) 	<pre>var="hello PYTHON" print(var.casefold())</pre>	
<ul style="list-style-type: none"> ● Six Degrees of Separation : Meet your favourites - 	<ul style="list-style-type: none"> <input type="radio"/> Hello python <input checked="" type="radio"/> HELLO PYTHON 	

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

- HELLO python
 hello python

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

Yes, the answer is correct.
Score: 1
Accepted Answers:
hello python

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)

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

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

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

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

Quiz: Week 9
: Assignment
9
(assessment?
name=320)

● Week 9:
Programming
Assignment 1 -
Snakes and
Ladders I
(/noc21_cs75/progassignment?
name=323)

● Week 9:
Programming
Assignment 2 -
Snakes and
Ladders II
(/noc21_cs75/progassignment?
name=324)

Week 10 ()

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(April 17
2022-10AM
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**Programming
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X



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Week 10 : Assignment 10

The due date for submitting this assignment has passed.

Due on 2021-10-06, 23:59 IST.

Assignment submitted on 2021-10-03, 12:37 IST

1) Classify the following types of compressed image files as lossy or lossless compression type. **1 point**

- (1) PNG
(2) JPEG

- (1) Lossless
 (2) Lossey
- (1) Lossey
 (2) Lossless
- (1) Lossless
 (2) Lossless
- (1) Lossey
 (2) Lossey

Yes, the answer is correct.
Score: 1

Accepted Answers:

- (1) Lossless
(2) Lossey

2) Compression can be used to reduce or change file size and which of these following **1 point** attributes?

- File type
 Resolution
 Bit depth

<input type="radio"/> FLAMES - Part 01 (unit? unit=214&lesson=215)	<input checked="" type="radio"/> All of the above Yes, the answer is correct. Score: 1
<input type="radio"/> FLAMES - Part 02 (unit? unit=214&lesson=216)	Accepted Answers: <i>All of the above</i>
<input type="radio"/> FLAMES - Part 03 (unit? unit=214&lesson=217)	3) NumPy is a python library written partially in python and most parts that require fast 1 point computation are written in C or C++. State whether the following statement is true or false.
<input type="radio"/> FLAMES - Part 04 (unit? unit=214&lesson=218)	<input checked="" type="radio"/> True <input type="radio"/> False Yes, the answer is correct. Score: 1
<input type="radio"/> FLAMES - Part 05 (unit? unit=214&lesson=219)	Accepted Answers: <i>True</i>
<input type="radio"/> FLAMES - Part 06 (unit? unit=214&lesson=220)	4) What is the output of the following program ? 1 point <pre>import numpy as np arr=np.array([[1,2,3,4,5,6],[6,5,4,3,2,1]]) print(arr[1,-5])</pre>
<input type="radio"/> Data Compression - Part 01 (unit? unit=214&lesson=221)	<input checked="" type="radio"/> 5 <input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/> Error message Yes, the answer is correct. Score: 1
<input type="radio"/> Data Compression - Part 02 (unit? unit=214&lesson=222)	Accepted Answers: <i>5</i>
<input type="radio"/> Data Compression - Part 03 (unit? unit=214&lesson=223)	5) What is the output of the following program? 1 point <pre>a = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U', ' '] b = 'Hello have a good day' for i in b: if i not in a: b = b[:b.index(i)] + b[b.index(i)+1:] print(b)</pre>
<input type="radio"/> Data Compression - Part 04 (unit? unit=214&lesson=224)	<input checked="" type="radio"/> eo ae a oo a <input type="radio"/> oe ae a oo a <input type="radio"/> ae ae a oo a <input type="radio"/> None of the above
<input type="radio"/> Data Compression - Part 05 (unit? unit=214&lesson=225)	Yes, the answer is correct. Score: 1
<input type="radio"/> Week 10 Feedback Form: The Joy of Computing using Python (unit? unit=214&lesson=226)	Accepted Answers: <i>eo ae a oo a</i>
Quiz: Week 10 : Assignment 10	

(assessment?
name=326)

Week 10 :
Programming
Assignment 1 -
String
Decomposition
(/noc21_cs75/progassignment?
name=331)

Week 10 :
Programming
Assignment 2 -
Encryption
(/noc21_cs75/progassignment?
name=332)

Week 11 ()

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**Programming
test -
Session 1
(April 17
2022-10AM
to 1 PM) ()**

**Programming
test -
Session 2
(April 17
2022-8 PM to
11 PM) ()**

6) What is the output of the following program?

1 point

```
def ring(str):
    result = ""
    for i in range(len(str)):
        if i%2==0:
            result = result + str[i]
    return result

print(ring("Welcome to Joy of Computing Course"))
```

- Wloet o fCmuigCus
- ecm t Jyo CmuigCus
- Welcome to Joy of Computing Course
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:
Wloet o fCmuigCus

7) What will the following function in the program do?

1 point

```
def ring(text):
    for line in text.split("\n"):
        return " ".join(line.split()[:-1])
```

- Reverse all the strings in the sentence
- Reverse the sentence
- Reverse the first word of the sentence.
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
None of the above

8) Which of these methods can be used to transpose a matrix X?

1 point

- X.Transpose()
- X.T
- X.t()
- X.transpose

Yes, the answer is correct.

Score: 1

Accepted Answers:
X.T

9) What will the following program print?

1 point

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

- We cannot reshape the array.
- [[1 2 3]
[4 5 6]
[7 8 9]
[10 11 12]]
- [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

10) What is the output of the following program?

1 point

```
import numpy as np
a = np.array([1,2,3,5,8])
b = np.array([0,3,4,2,1])
c = a + b
c = c*a
print (c[2])
```

- 7
- 12
- 10
- 21

Yes, the answer is correct.

Score: 1

Accepted Answers:

21

X



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Week 11: Assignment 11

The due date for submitting this assignment has passed.

Due on 2021-10-13, 23:59 IST.

Assignment submitted on 2021-10-06, 11:39 IST

1) The Python library used for browser automation is 1 point

- numpy
- browser
- selenium
- pyautogui

Yes, the answer is correct.

Score: 1

Accepted Answers:

selenium

2) Which method is used to obtain the element with a matching link text value? 1 point

- find_element_by_link_text
- find_element_by_name
- find_element_by_tag_name
- find_element_by_id

Yes, the answer is correct.

Score: 1

Accepted Answers:

find_element_by_link_text

3) What does the method find_element_by_class_name do ? 1 point

- The first element with the given tag name will be returned.

<input type="radio"/> Browser Automation Watsapp using Python - Part 01 (unit? unit=227&lesson=228)	<input checked="" type="radio"/> The first element with the matching class attribute name will be returned. <input type="radio"/> The first element with the matching name attribute value will be returned. <input type="radio"/> The first element with the matching CSS selector will be returned.
<input type="radio"/> Browser Automation Watsapp using Python - Part 02 (unit? unit=227&lesson=229)	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>The first element with the matching class attribute name will be returned.</i></p>
<input type="radio"/> Browser Automation Watsapp using Python - Part 03 (unit? unit=227&lesson=230)	<p>4) Which Python module allows us to work with date and time ? 1 point</p>
<input type="radio"/> dt <input type="radio"/> dtime <input type="radio"/> timedate <input checked="" type="radio"/> datetime	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>datetime</i></p>
<input type="radio"/> Browser Automation Watsapp using Python - Part 04 (unit? unit=227&lesson=231)	<p>5) Which method enables us to see the current date and time ? 1 point</p>
<input type="radio"/> today() <input type="radio"/> current() <input checked="" type="radio"/> now() <input type="radio"/> curdate()	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>now()</i></p>
<input type="radio"/> Fun with Calendar - Part 01 (unit? unit=227&lesson=232)	<p>6) Which Python library allows us to perform time zone calculations ? 1 point</p>
<input type="radio"/> timezone() <input type="radio"/> tz() <input checked="" type="radio"/> pytz() <input type="radio"/> pytimezone()	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>pytz()</i></p>
<input type="radio"/> Fun with Calendar - Part 04 (unit? unit=227&lesson=235)	<p>7) What would be the output of : print(calendar.weekday(2021,10,9)) 1 point</p>
<input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 3 <input type="radio"/> 6	<p>Yes, the answer is correct. Score: 1 Accepted Answers: <i>5</i></p>
<input type="radio"/> Fun with Calendar - Part 06 (unit? unit=227&lesson=237)	<p>Accepted Answers:</p>

Part 07 (unit? unit=227&lesson=238)	8) Which of the following conditional statements correctly return True for any leap year 1 point and False for any non-leap year ?
○ Fun with Calendar - Part 08 (unit? unit=227&lesson=239)	<input type="radio"/> if ((year%100 == 0 or year%400 == 0) or (year%4 == 0 or year%100 != 0)) <input checked="" type="radio"/> if ((year%100 == 0 and year%400 == 0) or (year%4 == 0 and year%100 != 0)) <input type="radio"/> if ((year%100 == 0 and year%4 == 0) or year%400 == 0) <input type="radio"/> if ((year%100 == 0 or year%4 == 0) and year%400 == 0)
○ Fun with Calendar - Part 09 (unit? unit=227&lesson=240)	Yes, the answer is correct. Score: 1
Accepted Answers: <i>if ((year%100 == 0 and year%400 == 0) or (year%4 == 0 and year%100 != 0))</i>	
○ Fun with Calendar - Part 10 (unit? unit=227&lesson=241)	9) Which of the following statements can be used to print the calendar of October 2021? 1 point
○ Fun with Calendar - Part 11 (unit? unit=227&lesson=242)	<input checked="" type="radio"/> calendar.month(2021, 10) <input type="radio"/> calendar.month(10, 2021) <input type="radio"/> calendar.month(Oct) <input type="radio"/> calendar.month(Oct, 2021)
○ Fun with Calendar - Part 12 (unit? unit=227&lesson=243)	Yes, the answer is correct. Score: 1
Accepted Answers: <i>calendar.month(2021, 10)</i>	
○ Week 11 Feedback Form: The Joy of Computing using Python (unit? unit=227&lesson=244)	10) What would be the output of the statement : print(datetime.datetime(2021, 9, 16)) ? 1 point
○ Quiz: Week 11: Assignment 11 (assessment? name=333)	<input type="radio"/> 2021-09-16 12:00:00 <input type="radio"/> 2021-09-15 23:59:59 <input type="radio"/> 2021-09-16 01:01:01 <input checked="" type="radio"/> 2021-09-16 00:00:00
○ Week 11: Programming Assignment 1 - Sorting of Words (/noc21_cs75/progassignment? name=335)	Yes, the answer is correct. Score: 1
Accepted Answers: <i>2021-09-16 00:00:00</i>	
○ Week 11: Programming Assignment 2 - Punctuations (/noc21_cs75/progassignment? name=336)	
○ Week 11: Programming	

Assignment 3 -
Solve the
riddle
(/noc21_cs75/progassignment?
name=337)

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Week 12: Assignment 12

The due date for submitting this assignment has passed.

Due on 2021-10-20, 23:59 IST.

Assignment submitted on 2021-10-13, 12:30 IST

1) In the point distribution method of page rank algorithm, at each iteration, each node **1 point** shares its pagerank value by

- Randomly choosing one of its outgoing links and sharing all its pagerank value to the node connected to that link.
- Dividing its pagerank value equally to all the outgoing links.
- Dividing its pagerank value randomly to all the outgoing links.
- Dividing its pagerank value to all the outgoing links with the value given being proportional to their outdegree.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Dividing its pagerank value equally to all the outgoing links.

2) In the random walk method, what is the next step when a sink node is encountered **1 point** in the underlying graph?

- random node is chosen out of all the given nodes.
- The node with the maximum number of incoming links is chosen.
- The node with the maximum number of outgoing links is chosen.
- The process stops at this stage.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Week 12 ()

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

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

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

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

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)

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

Page Rank -
How does
Google Work ?

random node is chosen out of all the given nodes.

3) According to the Google Page rank algorithm, the rank of a page depends on: A. **1 point**
Number of pages it is referring to.

- Number of pages it is referring to.
- Number of pages referring to it.
- Rank of pages it is referring to.
- Rank of pages referring to it.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Rank of pages referring to it.

4) Comment on the purpose of the following command. **1 point**

`sorted(p.items(),key=operator.itemgetter(1))`

- Sort the items of dictionary, p by key
- Sort the items of dictionary, p by values
- Sort the elements of list, p by values
- Sort the items of Tuple, p by values

Yes, the answer is correct.

Score: 1

Accepted Answers:

Sort the items of dictionary, p by values

5) Which of the following is not true about Collatz Conjecture? **1 point**

- If the previous term is even, the next term is one half the previous term.
- If the previous term is odd, the next term is 3 times the previous term.
- If the previous term is odd, the next term is 3 times the previous term plus 1.
- No matter what value of n, the sequence will always reach 1.

Yes, the answer is correct.

Score: 1

Accepted Answers:

If the previous term is odd, the next term is 3 times the previous term.

6) The sequence based on 3n+1 problem will always reach **0 points**

- True
- False

Yes, the answer is correct.

Score: 0

Accepted Answers:

True

7) What is the sequence obtained according to the 3m+1 algorithm for m=9? **0 points**

- 28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1
- 28,14,7,22,11,34,52,26,13,40,20,10,5,16,8,4,2,1
- 28,14,7,22,11,17,52,26,13,40,20,10,5,16,8,4,2,1
- 28,14,7,22,11,34,17,52,26,13,40,20,10,5,16,8,4,2,1

- Part 10 (unit? unit=245&lesson=255)	Yes, the answer is correct. Score: 0 Accepted Answers: <i>28, 14, 7, 22, 11, 34, 17, 52, 26, 13, 40, 20, 10, 5, 16, 8, 4, 2, 1</i>
● Page Rank - How does Google Work ? - Part 11 (unit? unit=245&lesson=256)	8) Consider the following statements: 1 point a) Random Walk method requires a lesser number of iterations to calculate accurate PageRank as compared to Points Distribution method. b) Points Distribution method requires lesser number of iterations to calculate accurate PageRank as compare to Random Walk method <input type="radio"/> Statement a is correct <input type="radio"/> Statement b is correct <input checked="" type="radio"/> Statement b is correct
● Page Rank - How does Google Work ? - Part 12 (unit? unit=245&lesson=257)	Yes, the answer is correct. Score: 1 Accepted Answers: <i>Statement b is correct</i>
● Page Rank - How does Google Work ? - Part 13 (unit? unit=245&lesson=258)	9) In the web graph, nodes are the web pages. What are the edges? 1 point <input type="radio"/> Network Connections <input checked="" type="radio"/> Links to other web pages <input type="radio"/> URLs <input type="radio"/> None of the above
● Page Rank - How does Google Work ? - Part 14 (unit? unit=245&lesson=259)	Yes, the answer is correct. Score: 1 Accepted Answers: <i>Links to other web pages</i>
● Page Rank - How does Google Work ? - Part 15 (unit? unit=245&lesson=260)	10) How many iterations does the number, 75 take to converge in Collatz Conjecture? 1 point <input checked="" type="radio"/> 14 <input type="radio"/> 15 <input type="radio"/> 13 <input type="radio"/> 12
● Collatz Conjecture - Part 01 (unit? unit=245&lesson=262)	Yes, the answer is correct. Score: 1 Accepted Answers: <i>14</i>
● Collatz Conjecture - Part 02 (unit? unit=245&lesson=263)	
○ JOC Conclusion (unit? unit=245&lesson=264)	
○ Week 12 Feedback Form: The Joy of Computing using Python	

(unit?
unit=245&lesson=265)

● **Quiz: Week**

12:

Assignment

12

(assessment?

name=338)

● **Week 12:**

Programming

Assignment 1 -

Candies

(/noc21_cs75/progassignment?

name=339)

● **Week12:**

Programming

Assignment 2 -

Suitcases

(/noc21_cs75/progassignment?

name=340)

● **Week12:**

Programming

Assignment 3 -

Game of

Strengths

(/noc21_cs75/progassignment?

name=341)

Text

Transcripts ()

Download

Videos ()

Live Session

()

Programming

test -

Session 1

(April 17

2022-10AM

to 1 PM) ()

Programming

test -

Session 2

(April 17

2022-8 PM to

11 PM) ()

