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

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Course outline

How does an NPTEL online course work?

Week 0

Week 1

○ Introduction to Programming
(unit?
unit=16&lesson=17)

○ Why Programming?
(unit?
unit=16&lesson=18)

○ Programming for Everybody
(unit?
unit=16&lesson=19)

○ Any Prerequisites?
(unit?
unit=16&lesson=20)

○ Where to start?
(unit?
unit=16&lesson=21)

Assignment 1

The due date for submitting this assignment has passed.

Due on 2021-02-03, 23:59 IST.

Assignment submitted on 2021-01-19, 14:53 IST

1) A function calling itself with a smaller instance is called as _____ 1 point

- Recursion
- Self-calling function
- Iteration
- Smaller instance function

Yes, the answer is correct.
Score: 1

Accepted Answers:
Recursion

2) _____ option in Scratch is used to wait between the commands 1 point

- Events
- Control
- Sensing
- Operators

Yes, the answer is correct.
Score: 1

Accepted Answers:
Control

3) Which of the following is the extension for a scratch file? 1 point

Why do we have so many languages?
(unit?
unit=16&lesson=22)

- sf
- sh
- sc
- sb

How to go about programming?
(unit?
unit=16&lesson=23)

Yes, the answer is correct.
Score: 1

Accepted Answers:
sb

4) The command to make sprite walk by certain steps is

1 point

- walk
- move
- ahead
- forward

Why to learn programming?
(unit?
unit=16&lesson=24)

Yes, the answer is correct.
Score: 1

Accepted Answers:
move

5) What is the action of next-costume command on sprite in Scratch?

1 point

- Changes color of sprite
- Changes style of sprite
- Moves sprite to different position
- Shows animation of sprite

How to give instructions?
(unit?
unit=16&lesson=26)

Yes, the answer is correct.
Score: 1

Accepted Answers:
Changes style of sprite

6) What is the output of the following

1 point



Introduction to Scratch (unit?
unit=16&lesson=27)

Introduction to Loops (unit?
unit=16&lesson=28)

More about Loops (unit?
unit=16&lesson=29)

Solution to Looping Problem (unit?
unit=16&lesson=30)

Scratch : Animation 1
(unit?
unit=16&lesson=31)

Scratch : Animation 2
(unit?
unit=16&lesson=32)

Scratch : Animation 3
(unit?
unit=16&lesson=33)

- 0
- 100
- 80
- 20

More on Scratch (unit? unit=16&lesson=34)

Quiz :
Assignment 1
(assessment? name=278)

Week 1 Feedback Form : The Joy of Computing using Python (unit? unit=16&lesson=281)

Week 2

Week 3

week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Yes, the answer is correct.
Score: 1

Accepted Answers:
80

7) Which of the following is not a control command in Scratch?

- repeat
- repeat until
- forever
- forever until

Yes, the answer is correct.
Score: 1

Accepted Answers:
forever until

8) What one iteration of the following block of instructions represent?

1 point



- Sprite going vertically up by 10 steps
- Sprite going backward by 10 steps
- Sprite going forward by 10
- Sprite remains in its place

Yes, the answer is correct.
Score: 1

Accepted Answers:
Sprite going backward by 10 steps

9) The command used to make the Sprite disappear from the animation stage is

1 point

- Show
- Vanish
- Hide
- Disappear

Yes, the answer is correct.
Score: 1

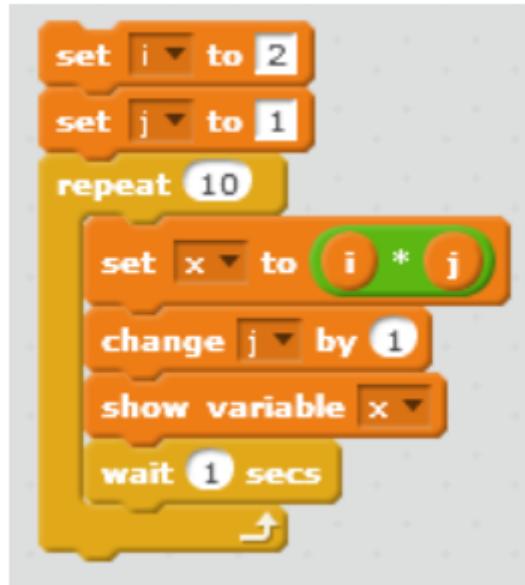
Accepted Answers:
Hide

10) What is the output of the following code?

1 point

April 10
Programming
test - Session 2
(8PM to 9PM)

Live Session



- Multiplication table of 2
- Power of 2
- Factorial of x
- None of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Multiplication table of 2

X



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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)

Assignment 2

The due date for submitting this assignment has passed.

Due on 2021-02-07, 23:59 IST.

Assignment submitted on 2021-01-26, 09:39 IST

1) When we save a Python code it will be saved as file name with the extension? 1 point

- .p
- .pyt
- .python
- .py

Yes, the answer is correct.
Score: 1

Accepted Answers:

.py

2) You are calculating the simple interest using a python program. How do you get the interest as an input from the user? 1 point

- r=float(input("Enter the interest rate"))
- r=int(input("Enter the interest rate"))
- r=input("Enter the interest rate")
- None of these

Yes, the answer is correct.
Score: 1

Accepted Answers:

r=float(input("Enter the interest rate"))

- 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)

3) Consider that you are developing a 2 player game in python. You have taken the names1 point of both the users and stored them as variables user1 and user2.
If you want to say Hi to both the users, print their names and welcome them to your game, which of the following statement(s) will fit to your requirement?

- `print("Hi"+user1+"and"+user2+"Welcome to the game")`
- `print("Hi",user1,"and",user2,"Welcome to the game")`
- `print("Hi","user1","and","user2","Welcome to the game")`
- `print("Hi"+user1,"and",user2+"Welcome to the game")`

Partially Correct.
Score: 0.33

Accepted Answers:

```
print("Hi"+user1+"and"+user2+"Welcome to the game")
print("Hi",user1,"and",user2,"Welcome to the game")
print("Hi"+user1,"and",user2+"Welcome to the game")
```

4) What is the output of this code snippet ?

1 point

```
a=3
b=3.0
if(a==b):
    print("numbers are equal")
else:
    print("numbers are not equal")
```

- numbers are equal
- numbers are not equal

Yes, the answer is correct.
Score: 1

Accepted Answers:
numbers are equal

5) What does the following code snippet print?

1 point

```
for i in range(0,20,2):
    print(i)
```

- All numbers from 0 to 19
- Pair of numbers from 0 to 19 whose difference is 2
- All even numbers from 0 to 19
- All odd numbers from 0 to 19

Yes, the answer is correct.
Score: 1

Accepted Answers:
All even numbers from 0 to 19

6) What is the output of the code snippet given?

1 point

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

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

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

- Week 2**
Programming
Assignment 1
(/noc21_cs32/progassignment?
name=287)

- Week 2**
Programming
Assignment 2
(/noc21_cs32/progassignment?
name=289)

- Week 2**
Programming
Assignment 3
(/noc21_cs32/progassignment?
name=290)

- Quiz :**
Assignment 2
(assessment?
name=285)

- 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

```
a=10
b=100%90
print(a,b)
```

- 10 100
- 10 90
- An error will be generated
- 10 10

Yes, the answer is correct.
Score: 1

Accepted Answers:
10 10

- 7) Given this code snippet, determine its output?

1 point

```
a=1
for i in range(1,7):
    a=a*(i+1)
print(a)
```

- 5040
- 4050
- 504
- 405

Yes, the answer is correct.
Score: 1

Accepted Answers:
5040

- 8) Consider the code snippet given, describe its output?

1 point

```
a=int(input("enter the number"))
for i in range(1,7):
    print(a+i)
```

- Some 7 numbers
- First 6 natural numbers
- Next 6 Numbers after the input number a
- Next 7 Numbers after the input number a

Yes, the answer is correct.
Score: 1

Accepted Answers:
Next 6 Numbers after the input number a

- 9) Consider the code snippet given, What might be the output of this?

1 point

Week 8

Week 9

Week 10

Week 11

Week 12

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April 10
Programming
test - Session 2
(8PM to 9PM)

Live Session

```
a=8
while(a>1):
    a=a-1
    print(a)
```

- Decreasing order of natural numbers from 7
- Decreasing order of natural numbers from 8
- Increasing order of natural numbers till 7
- Increasing order of natural numbers till 8

Yes, the answer is correct.

Score: 1

Accepted Answers:

Decreasing order of natural numbers from 7

10) Which of the following is not a valid variable name?

0 points

- var-1
- var1
- Var1
- var 1

No, the answer is incorrect.

Score: 0

Accepted Answers:

var-1

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=58&lesson=59)

Lists Part 2 : Manipulation
(unit?
unit=58&lesson=60)

Lists Part 3 : Operations
(unit?
unit=58&lesson=61)

Lists Part 4 : Slicing (unit?
unit=58&lesson=62)

Assignment 3

The due date for submitting this assignment has passed.

Due on 2021-02-10, 23:59 IST.

Assignment submitted on 2021-02-03, 18:59 IST

1) What is the output of the following code?

1 point

```
course_list = ["Science", "Maths", "English"]
for course in course_list:
    print(course)
```

- Science
- Maths
- English
- ['Science', 'Maths', 'English']
- 0
- 1
- 2
- ["Science", "Maths", "English"]

Loops and Conditionals : Fizzbuzz 01
 (unit?
 unit=58&lesson=63)

Loops and Conditionals : Fizzbuzz 02
 (unit?
 unit=58&lesson=64)

Crowd Computing - Just estimate 01 (unit?
 unit=58&lesson=65)

Crowd Computing - Just estimate 02 (unit?
 unit=58&lesson=66)

Crowd Computing - Just estimate 03 (unit?
 unit=58&lesson=67)

Crowd Computing - Just estimate 04 (unit?
 unit=58&lesson=68)

Crowd Computing - Just estimate 05 (unit?
 unit=58&lesson=69)

Crowd Computing - Just estimate 06 (unit?
 unit=58&lesson=70)

Permutations - Jumbled Words 01
 (unit?
 unit=58&lesson=71)

Permutations - Jumbled Words 02
 (unit?
 unit=58&lesson=72)

Yes, the answer is correct.
 Score: 1

Accepted Answers:

Science
Maths
English

2) Consider the list L= [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]. What will be output of the statement L[3:6]? 1 point

- [2, 3, 5]
- [0, 1, 1]
- [1, 2, 3]
- none

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 [2, 3, 5]

3) Which of the following is the method to insert an item into a specified position in a list? 1 point

- Append
- Insert
- Add
- InsertAt

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 Insert

4) _____ method returns the number of occurrences of an element in a list. 1 point

- NumberOf
- Total
- Count
- Length

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 Count

5) In the game FizzBuzz, what should be the output for the number 510? 1 point

- Fizz
- Buzz
- FizzBuzz
- Either A or B

Yes, the answer is correct.
 Score: 1

<input type="radio"/> Permutations - Jumbled Words 03 (unit? unit=58&lesson=73)	<p>Accepted Answers: FizzBuzz</p>	<p>6) Which of the following trims the list L by 10%</p>	<p>1 point</p>
<input type="radio"/> Theory of Evolution 01 (unit? unit=58&lesson=74)		<p><input type="radio"/> Stats.trim_mean(L, 10) <input checked="" type="radio"/> Stats.trim_mean(L, 0.1) <input type="radio"/> Stats.trim_mean(L, -10) <input type="radio"/> Stats.trim_mean(L, -0.1)</p>	
<input checked="" type="radio"/> Theory of Evolution 02 (unit? unit=58&lesson=75)	<p>Yes, the answer is correct. Score: 1</p>	<p>Accepted Answers: Stats.trim_mean(L, 0.1)</p>	
<input checked="" type="radio"/> Theory of Evolution 03 (unit? unit=58&lesson=76)		<p>7) Which of the following code is invalid?</p>	<p>1 point</p>
<input checked="" type="radio"/> Theory of Evolution 04 (unit? unit=58&lesson=77)		<p><input type="radio"/> import matplotlib.pyplot as plt plt.plot([1,2,3,4],[1,3,6,9],'b+') <input checked="" type="radio"/> import matplotlib.pyplot as plt plt.plot([1,2,3,4],[1,3,6,9],'b++') <input type="radio"/></p>	
<input checked="" type="radio"/> Week 3 Programming Assignment 1 (/noc21_cs32/progassignment? name=291)		<p><input type="radio"/> import matplotlib.pyplot as plt plt.plot([1,2,3,4],[1,3,6,9],'b*) <input checked="" type="radio"/> import matplotlib.pyplot as plt plt.plot([1,2,3,4],[1,3,6,9],'b--)</p>	
<input checked="" type="radio"/> Week 3 Programming Assignment 2 (/noc21_cs32/progassignment? name=292)	<p>Yes, the answer is correct. Score: 1</p>	<p>Accepted Answers: import matplotlib.pyplot as plt plt.plot([1,2,3,4],[1,3,6,9],'b++)</p>	
<input checked="" type="radio"/> Week 3 Programming Assignment 3 (/noc21_cs32/progassignment? name=293)		<p>8) In how many different ways can you arrange the letters in the word COMP?</p>	<p>1 point</p>
<input checked="" type="radio"/> Quiz : Assignment 3 (assessment? name=286)		<p><input checked="" type="radio"/> 24 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 20</p>	
<input type="radio"/> Week 3 Feedback Form : The Joy of Computing using Python (unit? unit=58&lesson=78)		<p>Yes, the answer is correct. Score: 1</p>	
<p>Accepted Answers: 24</p>		<p>9) The method open("file1.txt", r+) opens the file file1.txt in</p>	<p>1 point</p>
<p>week 4</p>		<p><input type="radio"/> Read mode <input type="radio"/> Write mode <input checked="" type="radio"/> Read write mode</p>	

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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test - Session 1
(10AM to 11AM)

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Programming
test - Session 2
(8PM to 9PM)

Live Session

Append mode

Yes, the answer is correct.

Score: 1

Accepted Answers:

Read write mode

10) The function random.randint(1,100) in python generates

1 point

- A random integer between 1 to 100 with 1 and 100 both inclusive
- A random integer between 1 to 100 with 1 and 100 both exclusive
- A random integer between 1 to 100 with only 100 inclusive
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

A random integer between 1 to 100 with 1 and 100 both inclusive

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=80&lesson=81)

Magic Square:
Hit and Trial
01 (unit?
unit=80&lesson=82)

Magic Square:
Hit and Trial
02 (unit?
unit=80&lesson=83)

Magic Square:
Hit and Trial

Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-02-17, 23:59 IST.

Assignment submitted on 2021-02-14, 22:54 IST

1) A magic square is an $n \times n$ matrix in which

1 point

- Sum of numbers in each row is same
- Sum of numbers in each column is same
- Sum of numbers in each diagonal is same
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

2) For any magic square of $n \times n$, the magic number M is given by

1 point

- $n(n^2 + 1) / 2$
- $n(n + 1) / 2$
- $(n^2 + 1) / 2$
- $(n + 1) / 2$

Yes, the answer is correct.

Score: 1

Accepted Answers:

$n(n^2 + 1) / 2$

03 (unit?
unit=80&lesson=84)

○ Magic Square:
Hit and Trial
04 (unit?
unit=80&lesson=85)

○ Magic Square:
Hit and Trial
05 (unit?
unit=80&lesson=86)

○ Let's program
and play (unit?
unit=80&lesson=87)

● Dobble Game -
Spot the
similarity 01
(unit?
unit=80&lesson=88)

● Dobble Game -
Spot the
similarity 02
(unit?
unit=80&lesson=89)

○ Dobble Game -
Spot the
similarity 03
(unit?
unit=80&lesson=90)

○ Dobble Game -
Spot the
similarity 04
(unit?
unit=80&lesson=91)

● What is your
date of birth?
(unit?
unit=80&lesson=92)

● Birthday
Paradox - Find
your twin 01
(unit?
unit=80&lesson=93)

● Birthday
Paradox - Find
your twin 02
(unit?
unit=80&lesson=94)

● Birthday
Paradox - Find

3) Assuming that num is always a 2-digit number, what is the output of the following code? 1 point

```
num = int(input())
temp = num
x = len(str(num))
z = 0
while temp > 0:
    y = temp % 10
    z += y ** x
    temp //= 10
if num == z:
    print(num)
```

- Prints the number if the sum of squares of its digits is the number itself
- Prints the number if the sum its digits is the number itself
- Prints the number if the product of its digits is the number itself
- Prints nothing

No, the answer is incorrect.
Score: 0

Accepted Answers:

Prints the number if the sum of squares of its digits is the number itself

4) In a double game each pair of cards will have

1 point

- Only two symbols in common
- Only one symbol in common
- All symbols in common
- No symbols in common

Yes, the answer is correct.
Score: 1

Accepted Answers:

Only one symbol in common

5) The minimum number of people required to guarantee that at least two people will have 1 point their birthdays falling on the same day of a non-leap year is

- 365
- 364
- 366
- 367

Yes, the answer is correct.
Score: 1

Accepted Answers:

366

6) What does the following code snippet in python compute?

1 point

```
num = int(input())
```

your twin 03
(unit?
unit=80&lesson=95)

```
for i in range(1, 11):
    print(num*i)
```

● Birthday
Paradox - Find
your twin 04
(unit?
unit=80&lesson=96)

- Factorial of num
- Multiplication table of num
- Powers of num
- None

Yes, the answer is correct.
Score: 1

Accepted Answers:
Multiplication table of num

● Birthday
Paradox - Find
your twin 05
(unit?
unit=80&lesson=97)

7) Which of the following will print all prime numbers in an interval? 1 point

● What's your
favourite
movie? (unit?
unit=80&lesson=98)



```
lower = int(input())
upper = int(input())
for num in range(lower, upper + 1):
    if num>1:
        for i in range (2,num):
            if(num % i) == 0:
                break
        else:
            print(num)
```



```
for num in range(lower, upper + 1):
    if num > 1:
        for i in range(2, num):
            if (num % i) != 0:
                print(num)
```



```
for num in range(lower, upper + 1):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                continue
        else:
            print(num)
```



```
for num in range(lower, upper + 1):
    if num > 1:
        for i in range(2, num):
            if (num % i) != 0:
                break
        else:
            print(num)
```

● Guess the
Movie Name
01 (unit?
unit=80&lesson=99)

● Guess the
Movie Name
02 (unit?
unit=80&lesson=100)

● Guess the
Movie Name
03 (unit?
unit=80&lesson=101)

● Guess the
Movie Name
04 (unit?
unit=80&lesson=102)

○ Guess the
Movie Name
05 (unit?
unit=80&lesson=103)

○ Guess the
Movie Name
06 (unit?
unit=80&lesson=104)

● Week 4
Programming
Assignment 1
(/noc21_cs32/progassignment
name=294)

Yes, the answer is correct.
Score: 1

(/noc21_cs32/progassgnmeAccepted Answers:
name=295)

- Week 4
Programming
Assignment 3
(/noc21_cs32/progassgnme
name=296)

- Quiz :
Assignment 4
(assessment?
name=303)

- Week 4
Feedback
Form : The Joy
of Computing
using Python
(unit?
unit=80&lesson=105)

Week 5

Week 6

Week 7

Week 8

Week 9

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April 10
Programming
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April 10
Programming
test - Session 2
(8PM to 9PM)

```
lower = int(input())
upper = int(input())
for num in range(lower, upper + 1):
    if num>1:
        for i in range (2,num):
            if(num % i) == 0:
                break
        else:
            print(num)
```

- 8) Which of the following method in python chooses a movie from the list of movie names 1 point given below?

movies =["zindagi" , " chinatown " , "darr" , " 3idiots " , "sixthsense" , "speed" , "avtaar"]

- random.random(movies)
- random.choice(movies)
- random.select(movies)
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

random.choice(movies)

- 9) In “Guess the Movie Name” game, at-most how many guesses do you need to make 0 points for a five lettered movie name with all distinct letters in it?

- 53,130
- 6,37,5600
- 120
- 5

No, the answer is incorrect.

Score: 0

Accepted Answers:

53,130

- 10) In “Guess the movie name” game, if the player asks to open up a letter that is not 1 point present in the actual movie name then the closest letter that precedes this requested letter in the alphabetical order and present in the actual movie name is opened up.

- True
- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

Live Session

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

- Introduction to Dictionaries (unit?
unit=107&lesson=108)

- Speech to Text : No need to write 01 (unit?
unit=107&lesson=109)

- Speech to Text : No need to

Assignment 5

The due date for submitting this assignment has passed.

Due on 2021-02-24, 23:59 IST.

Assignment submitted on 2021-02-23, 21:21 IST

1) Let marks scored be a dictionary of the items given below: 1 point

```
marks_scored = { }
marks_scored['maths']= 80
marks_scored['science']=90
marks_scored['english']=85
marks_scored['social']=95
```

Which of the following operation will print the items of the dictionary?

- marks_scored.items()
- marks_scored.keys()
- marks_scored.values()
- all of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:
marks_scored.items()

2) Which of the following operation on the dictionary marks_scored in Question 1 will remove a specified key and return the corresponding value? 1 point

- marks_scored.remove

write 02 (unit?
unit=107&lesson=110)

- marks_scored.del
- marks_scored.pop
- marks_scored.popitem

Yes, the answer is correct.
Score: 1

Accepted Answers:
marks_scored.pop

3) Speech recognition does not work on .wav extension files

1 point

- True
- False

Yes, the answer is correct.
Score: 1

Accepted Answers:
False

4) What are the items in the following dictionary :

1 point

Dictionary = {x: x*x for x in range(11) if x % 2 == 0 }
print(Dictionary)

- Dictionary of odd numbers and their squares
- Dictionary of even numbers and their squares
- dictionary of numbers divisible by 2
- non of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
Dictionary of even numbers and their squares

5) In the game "Rock, Paper and Scissor", if player one enters 456 and player two enters 1 point 684 with their secret bits 0 and 2 respectively, then the expected outcome of the game would be

-
- Player one wins
 - Player two wins
 - draw
 - insufficient data

Yes, the answer is correct.
Score: 1

Accepted Answers:
Player one wins

6) What is the output of the following code:

1 point

Speech to Text
: No need to
write 03 (unit?
unit=107&lesson=111)

Monte Hall : 3
doors and a
twist 01 (unit?
unit=107&lesson=112)

Monte Hall : 3
doors and a
twist 02 (unit?
unit=107&lesson=113)

Rock, Paper
and Scissor :
Cheating not
allowed !! 01
(unit?
unit=107&lesson=114)

Rock, Paper
and Scissor :
Cheating not
allowed !! 02
(unit?
unit=107&lesson=115)

Rock, Paper
and Scissor :
Cheating not
allowed !! 03
(unit?
unit=107&lesson=116)

Rock, Paper
and Scissor :
Cheating not
allowed !! 04
(unit?
unit=107&lesson=117)

Sorting and
Searching : 20
questions
game 01 (unit?
unit=107&lesson=118)

Sorting and
Searching : 20
questions
game 02 (unit?
unit=107&lesson=119)

● Sorting and Searching : 20 questions game 03 (unit? unit=107&lesson=120)

● Sorting and Searching : 20 questions game 04 (unit? unit=107&lesson=121)

● Sorting and Searching : 20 questions game 05 (unit? unit=107&lesson=122)

● Sorting and Searching : 20 questions game 06 (unit? unit=107&lesson=123)

● Sorting and Searching : 20 questions game 07 (unit? unit=107&lesson=124)

● Sorting and Searching : 20 questions game 08 (unit? unit=107&lesson=125)

● Week 5 Programming Assignment 1 (/noc21_cs32/progassignment? name=297)

● Week 5 Programming Assignment 2 (/noc21_cs32/progassignment? name=298)

● Week 5 Programming Assignment 3 (/noc21_cs32/progassignment? name=299)

● Quiz : Assignment 5 (assessment? name=304)

```
students = {'Ajay': {'sem': '3',  
                     'roll_no': 1, 'total_marks': 85},  
            'Shwetha': {'sem': '3',  
                        'roll_no': 2, 'total_marks': 90}}  
  
for a in students:  
    print(a)  
    for b in students[a]:  
        print(b, ':', students[a][b])
```



Ajay

sem : 3

roll_no : 1

total_marks : 85

Shwetha

sem : 3

roll_no : 2

total_marks : 90



Ajay, sem : 3, roll_no : 1, total_marks : 85

Shwetha, sem : 3, roll_no : 2, total_marks : 90



{ Ajay, sem : 3, roll_no : 1, total_marks : 85 , Shwetha, sem : 3,
roll_no : 2, total_marks : 90 }

none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Ajay

sem : 3

roll_no : 1

total_marks : 85

Shwetha

sem : 3

roll_no : 2

total_marks : 90

7) Binary search can be applied on any list of random elements

1 point



True



False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

Week 5
 Feedback
 Form : The Joy of Computing using Python (unit?
 unit=107&lesson=126)

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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April 10
 Programming test - Session 1
 (10AM to 11AM)

April 10
 Programming test - Session 2
 (8PM to 9PM)

Live Session

8) Which of the following is true about bubble sort? 1 point

- In each iteration the first element in unsorted list is compared with the remaining elements
- The algorithm stops when the list is already sorted
- In each iteration every consecutive pairs of the unsorted list are compared
- There is swapping of elements in each comparison made

Yes, the answer is correct.

Score: 1

Accepted Answers:

In each iteration every consecutive pairs of the unsorted list are compared

9) Which are the given statements precisely explains the action of the given code? 1 point

```
import random
roll_the_dice = "y"
while roll_the_dice == "y" or x+y==12:
    print ("Rolling the dices...")
    print ("The values are....")
    x = random.randint(1, 6)
    print (x)
    y = random.randint(1, 6)
    print (y)
    roll_the_dice = input("Do you want to roll the dices?")
```

- rolls the dices as long as the input is 'y'
- rolls the dices until the sum of their face values is 12
- rolls the dices as long as the input is 'y' or the sum of their face values is 12
- rolls the dices infinitely

Yes, the answer is correct.

Score: 1

Accepted Answers:

rolls the dices as long as the input is 'y' or the sum of their face values is 12

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

```
some_list = {'abc':10, 'xyz':3, 'pqr':2}
s = ''
for i in some_list:
    s = s + str(some_list[i]) + ' '
    s1 = s[:-1]
print(s1[::-1])
```

- 3 2
- 2 3
- 2 3 01
- 01 3 2

Yes, the answer is correct.

Score: 1

Accepted Answers:

2 3 01

X



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

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Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Substitution Cipher -The science of secrecy (unit? unit=128&lesson=129)

Substitution Cipher -The science of secrecy 01

Assignment 6

The due date for submitting this assignment has passed.

Due on 2021-03-03, 23:59 IST.

Assignment submitted on 2021-02-23, 19:20 IST

1) In Caesar cipher, the mediator needs to make maximum of how many trials to break the 1 point code?

- 1
- 26
- no trail needed
- 10

Yes, the answer is correct.

Score: 1

Accepted Answers:

26

2) What is the result of the following code if the input is COMPUTING?

1 point

(unit?
unit=128&lesson=130)

● Substitution Cipher -The science of secrecy 02
(unit?
unit=128&lesson=131)

● Substitution Cipher -The science of secrecy 03
(unit?
unit=128&lesson=132)

● Tic Tac Toe - Down the memory Lane
(unit?
unit=128&lesson=133)

● Tic Tac Toe - Down the memory Lane 01 (unit?
unit=128&lesson=134)

○ Tic Tac Toe - Down the memory Lane 02 (unit?
unit=128&lesson=135)

○ Tic Tac Toe - Down the memory Lane 03 (unit?
unit=128&lesson=136)

○ Tic Tac Toe - Down the memory Lane 04 (unit?
unit=128&lesson=137)

○ Tic Tac Toe - Down the memory Lane 05 (unit?
unit=128&lesson=138)

○ Recursion (unit?
unit=128&lesson=139)

○ Recursion 01 (unit?

```
result = ""
text = input()
shift = 4
for i in range(len(text)):
    char = text[i]
    if (char.isupper()):
        result += chr((ord(char) + shift - 65) % 26 + 65)

    else:
        result += chr((ord(char) + shift - 97) % 26 + 97)
```

- FRPSXWLQJ
- HTRUZYNSL
- GSQTYXMRK
- none of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
GSQTYXMRK

3) Which of the following is TRUE about MIN-MAX strategy? 1 point

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

Yes, the answer is correct.
Score: 1

Accepted Answers:
Maximise the chances of your winning and minimize the changes of the opponent winning

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

```
num1 = int(input())
num2 = int(input())
i = 1
while(i <= num1 and i <= num2):
    if(num1 % i == 0 and num2 % i == 0):
        output = i
    i = i + 1
```

<p>unit=128&lesson=140)</p> <p><input type="radio"/> Recursion 02 (unit? unit=128&lesson=141)</p>	<p><input checked="" type="radio"/> Greatest common factor of num1 and num2 <input type="radio"/> Least common factor of num1 and num2 <input type="radio"/> Least common multiple of num1 and num2 <input type="radio"/> Greatest common multiple of num1 and num2</p>
<p><input type="radio"/> Recursion 03 (unit? unit=128&lesson=142)</p>	<p>Yes, the answer is correct. Score: 1 Accepted Answers: Greatest common factor of num1 and num2</p>
<p><input type="radio"/> Recursion 04 (unit? unit=128&lesson=143)</p>	<p>5) What does the following python code compute? 1 point</p>
<p><input type="radio"/> Recursion 05 (unit? unit=128&lesson=144)</p>	<pre>def xyz(a, b): if a == 0 or b == 0: return 0 if b == 1: return a if a == 1: return b return a + xyz(a, b - 1)</pre>
<p><input checked="" type="radio"/> Week 6 Programming Assignment 1 (/noc21_cs32/progassignment? name=300)</p> <p><input checked="" type="radio"/> Week 6 Programming Assignment 2 (/noc21_cs32/progassignment? name=301)</p> <p><input checked="" type="radio"/> Week 6 Programming Assignment 3 (/noc21_cs32/progassignment? name=302)</p> <p>Quiz : Assignment 6 (assessment? name=306)</p>	<p><input type="radio"/> power of a raised to b <input type="radio"/> sum of a and b <input checked="" type="radio"/> product of a and b <input type="radio"/> none of the above</p> <p>Yes, the answer is correct. Score: 1 Accepted Answers: product of a and b</p>
<p><input type="radio"/> Week 6 Feedback Form : The Joy of Computing using Python (unit? unit=128&lesson=146)</p>	<p>6) Which of the following is not true about recursion? 1 point</p> <p><input type="radio"/> The speed of a program using recursion is same as that of the speed of its non-recursive equivalent <input type="radio"/> The speed of a program using recursion is slower than the speed of its non-recursive equivalent <input checked="" type="radio"/> The speed of a program using recursion is faster than the speed of its non-recursive equivalent <input type="radio"/> Recursive programs are easier to understand and code than that of its non-recursive equivalent</p>
<p>Week 7</p>	<p>Yes, the answer is correct. Score: 1</p>
<p>Week 8</p>	<p>Accepted Answers: The speed of a program using recursion is faster than the speed of its non-recursive equivalent</p>
<p>Week 9</p>	

Week 10

Week 11

Week 12

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Programming
test - Session 2
(8PM to 9PM)

Live Session

7) Which of the following is the optimal code among the given codes using recursive binary search? 1 point

`def binary_search(arr, low, high, x):
 if high >= low:
 mid = (high + low) // 2
 if arr[mid] == x:
 return mid
 elif arr[mid] > x:
 return binary_search(arr, mid + 1, high, x)
 else:
 return binary_search(arr, low, mid - 1, x)
 else:
 return -1`

`def binary_search(arr, low, high, x):
 if high >= low:
 mid = (high + low) // 2
 if arr[mid] == x:
 return mid
 elif arr[mid] > x:
 return binary_search(arr, low, mid - 1, x)
 else:
 return binary_search(arr, mid + 1, high, x)
 else:
 return -1`

`def binary_search(arr, low, high, x):
 if high >= low:
 mid = (high + low) // 2
 if arr[mid] == x:
 return mid
 elif arr[mid] > x:
 return binary_search(arr, mid + 1, high, x)
 else:
 return binary_search(arr, low, mid - 1, x)`

```
def binary_search(arr, low, high, x):
    if high >= low:
        mid = (high + low) // 2
        if arr[mid] == x:
            return mid
        if arr[mid] > x:
            return binary_search(arr, low, mid, x)
        else:
            return binary_search(arr, mid, high, x)
    else:
        return -1
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
def binary_search(arr, low, high, x):
    if high >= low:
        mid = (high + low) // 2
        if arr[mid] == x:
            return mid
        elif arr[mid] > x:
            return binary_search(arr, low, mid - 1, x)
        else:
            return binary_search(arr, mid + 1, high, x)
    else:
        return -1
```

8) What is the result of the following recursive function call?

1 point

```
def rfun(n):
    if(n>1):
        result = n * rfun(n-1)
        print(result)
    else:
        result = 1
    return result
rfun(4)
```

2
6

24

1

2

6

24

2

4

12

1

2

4

12

Yes, the answer is correct.

Score: 1

Accepted Answers:

2

6

24

9) What is the output of the following python code?

1 point

```
def abc(num):  
    return num * abc(num-1)  
  
print(abc(4))
```

24

Runs infinitely

Recursion error

1

Yes, the answer is correct.

Score: 1

Accepted Answers:

Recursion error

10) A program can be written using recursive function only if it can be recursively defined. 1 point

TRUE

FALSE

No, the answer is incorrect.

Score: 0

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=147&lesson=148)

Snakes and
Ladders - Not

Assignment 7

The due date for submitting this assignment has passed.

Due on 2021-03-10, 23:59 IST.

Assignment submitted on 2021-03-03, 21:53 IST

1) Which of the following is/are uses of functions? 1 point

- Gives higher level overview of the task to be performed
- Reusability- use same functionality at various places
- Better understanding of the code
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

2) In Snakes and Ladders game the least number of times a player has to roll a die with 1 point
the following ladder positions is _____

ladders = { 3: 20, 6: 14, 11: 28, 15: 34, 17: 74, 22: 37, 38: 59, 49: 67, 57: 76, 61: 78, 73: 86, 81: 98,
88: 91 }

- 4
- 5
- 6
- 7

Yes, the answer is correct.

Score: 1

Accepted Answers:

on the Board -
Part 01 (unit?
unit=147&lesson=149)

5

3) Which of the following is the end point of the game Snakes and Ladder?

1 point

- A player has reached the end point
- A player quits the game
- both A and B are the possibilities of the game to end
- None of the above

● Snakes and
Ladders - Not
on the Board -
Part 02 (unit?
unit=147&lesson=150)

Yes, the answer is correct.

Score: 1

Accepted Answers:

both A and B are the possibilities of the game to end

● Snakes and
Ladders - Not
on the Board -
Part 03 (unit?
unit=147&lesson=151)

4) What is the output of the following spiralprint python function?

1 point

```
def spiralprint(m, n, spiralmatrix):
    k = 0
    l = 0
    while (k < m and l < n):
        for i in range(l, n):
            print(spiralmatrix[k][i], end=" ")
        k += 1
        for i in range(k, m):
            print(spiralmatrix[i][n - 1], end=" ")
        n -= 1
        if (k < m):
            for i in range(n - 1, (l - 1), -1):
                print(spiralmatrix[m - 1][i], end=" ")
            m -= 2
        if (l < n):
            for i in range(m - 1, k - 1, -1):
                print(spiralmatrix[i][l], end=" ")
            l += 2
spiralmatrix = [[1, 2, 3, 4, 5, 6],
                [7, 8, 9, 10, 11, 12],
                [13, 14, 15, 16, 17, 18]]

rows = 3
cols = 6
spiralprint(rows, cols, spiralmatrix)
```

○ Snakes and
Ladders - Not
on the Board -
Part 04 (unit?
unit=147&lesson=152)

● Snakes and
Ladders - Not
on the Board -
Part 05 (unit?
unit=147&lesson=153)

○ Snakes and
Ladders - Not
on the Board -
Part 06 (unit?
unit=147&lesson=154)

● Spiral
Traversing -
Let's Animate
(unit?
unit=147&lesson=155)

● Spiral
Traversing -
Let's Animate -
Part 01 (unit?
unit=147&lesson=156)

● Spiral
Traversing -
Let's Animate -
Part 02 (unit?
unit=147&lesson=157)

● Spiral
Traversing -
Let's Animate -
Part 03 (unit?
unit=147&lesson=158)

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

Yes, the answer is correct.
Score: 1

Accepted Answers:

1 2 3 4 5 6 12 18 17 16 15 14 13

5) Which of the following code snippet will draw a star?

1 point

- Spiral
Traversing -
Let's Animate -
Part 04 (unit?
unit=147&lesson=159)

- Spiral
Traversing -
Let's Animate -
Part 05 (unit?
unit=147&lesson=160)

- Spiral
Traversing -
Let's Animate -
Part 06 (unit?
unit=147&lesson=161)

- Spiral
Traversing -
Let's Animate -
Part 07 (unit?
unit=147&lesson=162)

- GPS - Track the
route (unit?
unit=147&lesson=163)

- GPS - Track the
route - Part 01
(unit?
unit=147&lesson=164)

- GPS - Track the
route - Part 02
(unit?
unit=147&lesson=165)

- GPS - Track the
route - Part 03
(unit?
unit=147&lesson=166)

- GPS - Track the
route - Part 04
(unit?
unit=147&lesson=167)

- Week 7
Programming
Assignment 1
(/noc21_cs32/progassignment
name=312)

- Week 7
Programming
Assignment 2
(/noc21_cs32/progassignment
name=314)

```
import turtle
my_pen = turtle.Turtle()
for i in range(3):
    my_pen.forward(50)
    my_pen.right(90)
    my_pen.forward(70)
    my_pen.right(90)
turtle.done()
```

```
import turtle
my_pen = turtle.Turtle()
for i in range(3):
    my_pen.forward(50)
    my_pen.right(144)
    my_pen.forward(50)
    my_pen.right(144)
turtle.done()
```

```
import turtle
my_pen = turtle.Turtle()
for i in range(3):
    my_pen.forward(50)
    my_pen.right(90)
    my_pen.forward(50)
    my_pen.right(90)
turtle.done()
```

Week 7
 Programming Assignment 3
 (/noc21_cs32/progassignment
 name=313)

Quiz :
Assignment 7
 (assessment?
 name=318)

Week 7
 Feedback
 Form : The Joy
 of Computing
 using Python
 (unit?
 unit=147&lesson=168)

Week 8

Week 9

Week 10

Week 11

Week 12

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April 10
 Programming
 test - Session 1
 (10AM to 11AM)

April 10
 Programming
 test - Session 2
 (8PM to 9PM)

Live Session

```
import turtle
my_pen = turtle.Turtle()
for i in range(3):
    my_pen.right(60)
    my_pen.forward(60)
    my_pen.right(60)
    my_pen.forward(60)
turtle.done()
```

Yes, the answer is correct.
 Score: 1

Accepted Answers:

```
import turtle
my_pen = turtle.Turtle()
for i in range(3):
    my_pen.forward(50)
    my_pen.right(144)
    my_pen.forward(50)
    my_pen.right(144)
turtle.done()
```

6) Which of the following code snippet will draw a Hexagon?

1 point

```
import turtle
my_pen = turtle.Turtle()
for i in range(3):
    my_pen.forward(50)
    my_pen.right(90)
    my_pen.forward(70)
    my_pen.right(90)
turtle.done()
```

```
import turtle  
my_pen = turtle.Turtle()  
for i in range(3):  
    my_pen.forward(50)  
    my_pen.right(144)  
    my_pen.forward(50)  
    my_pen.right(144)  
turtle.done()
```

```
import turtle  
my_pen = turtle.Turtle()  
for i in range(3):  
    my_pen.forward(50)  
    my_pen.right(90)  
    my_pen.forward(50)  
    my_pen.right(90)  
turtle.done()
```

```
import turtle  
my_pen = turtle.Turtle()  
for i in range(3):  
    my_pen.right(60)  
    my_pen.forward(60)  
    my_pen.right(60)  
    my_pen.forward(60)  
turtle.done()
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

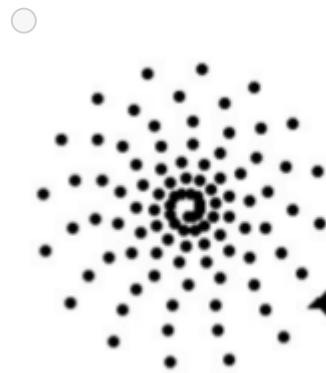
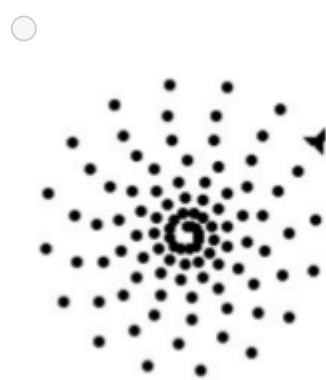
```
import turtle  
my_pen = turtle.Turtle()  
for i in range(3):  
    my_pen.right(60)  
    my_pen.forward(60)  
    my_pen.right(60)  
    my_pen.forward(60)  
turtle.done()
```

7) What is the output of the following code?

1 point

```
import turtle  
a = turtle.Turtle()  
for i in range(100):  
    a.dot()  
    a.forward(2+i/4)  
    a.penup()  
    a.left(30-i/4)  
turtle.done()
```





Yes, the answer is correct.

Score: 1

Accepted Answers:



8) In a file with extension csv what does csv mean? 1 point

- carry separated value
- common sector value
- class separated value
- comma separated value

Yes, the answer is correct.

Score: 1

Accepted Answers:
comma separated value

9) which of the following library has to be imported to plot the route map using GPS locations in python? 1 point

- csv
- gmplot
- both
- none

Yes, the answer is correct.

Score: 1

Accepted Answers:
both

10) Which of the following library moves the turtle backward? 1 point

- turtle.back(distance)
- turtle.bk(distance)
- turtle.backward(distance)
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:
All of the above

X



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

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Course outline

How does an
NPTEL online
course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

Week 7

Week 8

• Tuples- Python
Data Structure
(unit?
unit=169&lesson=170)

Assignment 8

The due date for submitting this assignment has passed.

Due on 2021-03-17, 23:59 IST.

Assignment submitted on 2021-03-17, 12:54 IST

1) Which of the following code snippet will create a tuple in python? 1 point

- name = ('kiran','bhushan','madan')
- name = {'kiran','bhushan','madan'}
- name = ['kiran','bhushan','madan']
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

name = ('kiran','bhushan','madan')

2) Which of the following is not true about tuples in python? 1 point

- Tuple consumes less memory
- Tuples are immutable
- Tuple supports item deletion
- Tuples does not support modification

Yes, the answer is correct.

Score: 1

Accepted Answers:

Tuple supports item deletion

3) What is the output of the following code snippet in python? 1 point

<input type="radio"/> Lottery Simulation - Profit or Loss (unit? unit=169&lesson=171)	<pre>name =('kiran','bhushan','madan') print (name[-1])</pre> <ul style="list-style-type: none"> <input type="radio"/> invalid syntax <input type="radio"/> tuple index out of range <input type="radio"/> prints nothing <input checked="" type="radio"/> madan
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 01 (unit? unit=169&lesson=172)	<p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: madan</p>
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 02 (unit? unit=169&lesson=173)	<p>4) What is the output of the following code?</p>
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 03 (unit? unit=169&lesson=174)	<p>1 point</p> <pre>import random random_number = random.randint(1,10) tries = 0 x = int(input()) while x != random_number: tries += 1 x = int(input()) if x == random_number: print("stop")</pre>
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 04 (unit? unit=169&lesson=175)	<ul style="list-style-type: none"> <input checked="" type="radio"/> the program stops when the number entered matches with the random number generated <input type="radio"/> the program stops after certain number of trials <input type="radio"/> the program never stops <input type="radio"/> error
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 05 (unit? unit=169&lesson=176)	<p>Yes, the answer is correct. Score: 1</p> <p>Accepted Answers: the program stops when the number entered matches with the random number generated</p>
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 06 (unit? unit=169&lesson=177)	<p>5) What does the following program plot?</p>
<input type="radio"/> Image Processing - Enhance your images (unit? unit=169&lesson=178)	<p>1 point</p>
<input type="radio"/> Image Processing - Enhance your images - Part 01 (unit? unit=169&lesson=179)	
<input type="radio"/> Image Processing - Enhance your images - Part	

02 (unit?
unit=169&lesson=180)

Image
Processing -
Enhance your
images - Part
03 (unit?
unit=169&lesson=181)

Anagrams
(unit?
unit=169&lesson=182)

Anagrams -
Part 01 (unit?
unit=169&lesson=183)

Anagrams -
Part 02 (unit?
unit=169&lesson=184)

Anagrams -
Part 03 (unit?
unit=169&lesson=185)

Facebook
Sentiment
Analysis (unit?
unit=169&lesson=186)

Facebook
Sentiment
Analysis - Part
01 (unit?
unit=169&lesson=187)

Facebook
Sentiment
Analysis - Part
02 (unit?
unit=169&lesson=188)

Facebook
Sentiment
Analysis - Part
03 (unit?
unit=169&lesson=189)

Facebook
Sentiment
Analysis - Part
04 (unit?
unit=169&lesson=190)

Week 8
Programming
Assignment 1
(/noc21_cs32/progassignment?
name=315)

```
import random
import matplotlib.pyplot as plt
rn=random.randint(0,9)
print(rn)
l=[0 for i in range(10)]
y=[ ]
for i in range(10):
    x=int(input())
    y.append(i)
    if x==rn:
        l[x]+=1
plt.plot(y,l)
plt.show()
```

- Plots the random number generated in each iteration
- Plots the number of times the given input matches with the random number generated
- Plots the input entered for each iteration
- none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Plots the number of times the given input matches with the random number generated

6) In image processing using python what is the acronym of PIL? 1 point

- Python Interactive Library
- Pillow Library
- Python Image Library
- Python Imaging Library

Yes, the answer is correct.

Score: 1

Accepted Answers:

Python Imaging Library

7) What does the following code snippet in python compute? 1 point

● Week 8

Programming
Assignment 2
(/noc21_cs32/progassignr
name=316)

● Week 8

Programming
Assignment 3
(/noc21_cs32/progassignr
name=317)

● Quiz :

Assignment 8
(assessment?
name=324)

○ Week 8

Feedback
Form : The Joy
of Computing
using Python
(unit?
unit=169&lesson=191)

Week 9

○ Natural
Language
Processing -
Author
Stylometry
(unit?
unit=192&lesson=193)

○ Natural
Language
Processing -
Author
Stylometry -
Part 01 (unit?
unit=192&lesson=194)

● Natural
Language
Processing -
Author
Stylometry -
Part 02 (unit?
unit=192&lesson=195)

● Natural
Language
Processing -
Author
Stylometry -

```
text1 = input()
len1 = len(text1)
text2 = input()
len2 = len(text2)
for i in range(0, len1 - len2 + 1):
    j = 0
    while ((j < len2) and (text1[i + j] == text2[j])):
        j = j + 1
    if (j == len2):
        print(text2)
```

- checks whether the two given texts are same
- searches for text2 in text1
- finds all the occurrences of text2 in text1
- none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

finds all the occurrences of text2 in text1

- 8) Which of the following code will convert the uppercase letters of the given string into lower case and prints the converted string? 1 point



```
strng = input()
out = ''
for i in strng:
    if i not in 'ABCDEFGHIJKLMNPQRSTUVWXYZ':
        out = out + i
    else:
        j = ord(i)
        k = j + 32
        out = out + chr(k)
print(out)
```

Part 03 (unit?
unit=192&lesson=196)

- Natural Language Processing - Author Stylometry - Part 04 (unit?
unit=192&lesson=197)

- Natural Language Processing - Author Stylometry - Part 05 (unit?
unit=192&lesson=198)

- Natural Language Processing - Author Stylometry - Part 06 (unit?
unit=192&lesson=199)

- Natural Language Processing - Author Stylometry - Part 07 (unit?
unit=192&lesson=200)

- Natural Language Processing - Author Stylometry - Part 08 (unit?
unit=192&lesson=201)

- Natural Language Processing - Author Stylometry - Part 09 (unit?
unit=192&lesson=202)

- Natural Language Processing - Author Stylometry - Part 10 (unit?
unit=192&lesson=203)

```
strng = input()
out = ''
for i in strng:
    if ord(i) >= 65 and ord(i) <= 90:
        j = ord(i) + 32
        k = chr(j)
        out = out + k
print(out)
```

- both A and B
- none

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
strng = input()
out = ''
for i in strng:
    if i not in 'ABCDEFGHIJKLMNPQRSTUVWXYZ':
        out = out + i
    else:
        j = ord(i)
        k = j + 32
        out = out + chr(k)
print(out)
```

- 9) Which of the following is the platform for building Python programs to work with sentiment analysis of human language data? 1 point

- NLTK: Neutral Language Toolkit
- NLTK: Natural Language Toolkit
- NLTK: Normal Language Toolkit
- NLTK: Natural Lingual Toolkit

Yes, the answer is correct.
Score: 1

Accepted Answers:
NLTK: Natural Language Toolkit

- 10) Sentiment analysis involves working with whether _____ 1 point

- a piece of information is biased or unbiased
- a piece of information is useful or not

● Introduction to Networkx - Part 01 (unit? unit=192&lesson=204)

- a piece of information is true or false
 a piece of information is positive or negative

Yes, the answer is correct.
Score: 1

● Introduction to Networkx - Part 02 (unit? unit=192&lesson=205)

Accepted Answers:
a piece of information is positive or negative

● Six Degrees of Separation : Meet your favourites (unit? unit=192&lesson=206)

● Six Degrees of Separation : Meet your favourites - Part 01 (unit? unit=192&lesson=207)

● Six Degrees of Separation : Meet your favourites - Part 02 (unit? unit=192&lesson=208)

● Six Degrees of Separation : Meet your favourites - Part 03 (unit? unit=192&lesson=209)

Area Calculation - Don't Measure (unit? unit=192&lesson=210)

Area Calculation - Don't Measure - Part 01 (unit? unit=192&lesson=211)

Area Calculation - Don't Measure - Part 02 (unit? unit=192&lesson=212)

Area Calculation - Don't Measure

- Part 03 (unit?
unit=192&lesson=213)

○ Area

Calculation -
Don't Measure
- Part 04 (unit?
unit=192&lesson=214)

○ Area

Calculation -
Don't Measure
- Part 05 (unit?
unit=192&lesson=215)

○ Area

Calculation -
Don't Measure
- Part 06 (unit?
unit=192&lesson=216)

● Week 9

Programming
Assignment 1
(/noc21_cs32/progassignment?
name=319)

● Week 9

Programming
Assignment 2
(/noc21_cs32/progassignment?
name=320)

● Week 9

Programming
Assignment 3
(/noc21_cs32/progassignment?
name=322)

● Quiz :

Assignment 9
(assessment?
name=328)

○ Week 9

Feedback
Form : The Joy
of Computing
using Python
(unit?
unit=192&lesson=217)

Week 10

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Week 12

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April 10
Programming
test - Session 1
(10AM to 11AM)

April 10
Programming
test - Session 2
(8PM to 9PM)

[Live Session](#)

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Natural
Language
Processing -

Assignment 9

The due date for submitting this assignment has passed.

Due on 2021-03-24, 23:59 IST.

Assignment submitted on 2021-03-16, 20:25 IST

1) Which of the following is not true about Stylometry Analysis? 1 point

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

any two people may have same vocabulary

2) An author's stylistic signature can be analysed by which of the following method(s)? 1 point

- Plot a graph of word length distribution
- Kilgariff's Chi Squared method
- John Burrow's Delta method
- All of the above

Yes, the answer is correct.

Score: 1

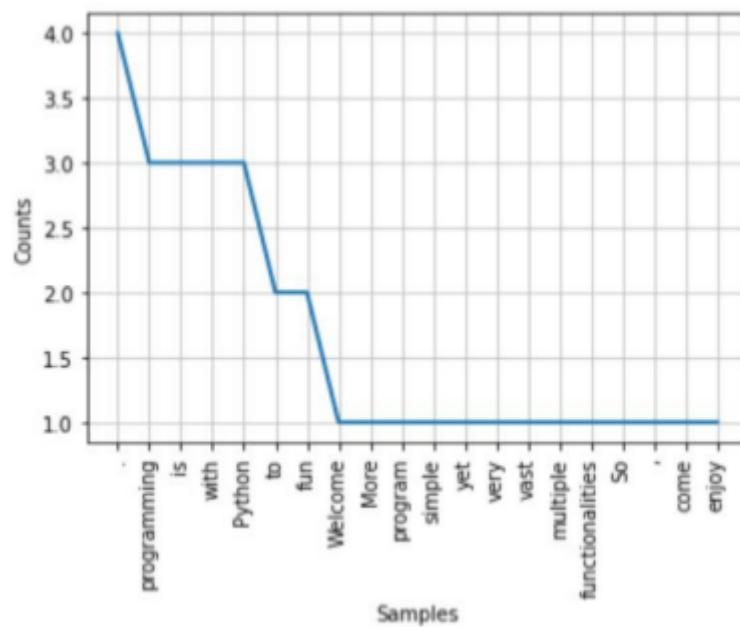
Accepted Answers:

All of the above

Author Stylometry (unit? unit=192&lesson=193)	3) What is the output of the following code? 1 point <pre>from nltk.tokenize import sent_tokenize mytext = "Have nice day, my friend!!! Programming in Python is fun" print(sent_tokenize(mytext))</pre>
<input type="radio"/> Natural Language Processing - Author Stylometry - Part 01 (unit? unit=192&lesson=194)	<input type="radio"/> ['Have nice day, my friend!!! Programming in Python is fun'] <input checked="" type="radio"/> ['Have nice day, my friend!!!', 'Programming in Python is fun'] <input type="radio"/> 'Have nice day, my friend!!!' 'Programming in Python is fun' <input type="radio"/> error
<input checked="" type="radio"/> Natural Language Processing - Author Stylometry - Part 02 (unit? unit=192&lesson=195)	Yes, the answer is correct. Score: 1 Accepted Answers: ['Have nice day, my friend!!!', 'Programming in Python is fun']
<input checked="" type="radio"/> Natural Language Processing - Author Stylometry - Part 03 (unit? unit=192&lesson=196)	4) What is the output of the following code? 1 point <pre>from nltk.tokenize import sent_tokenize from nltk.corpus import stopwords text1 = "Welcome to programming . Programming is fun ." text2 = " More fun is to program with Python ." text3 = " Python is simple yet very vast with multiple functionalities ." text4 = " So, come enjoy programming with Python" mytext = text1 + text2 + text3 + text4 tokens = [t for t in mytext.split()] sr= stopwords.words('english') clean_tokens = tokens[:] freq = nltk.FreqDist(tokens) freq.plot(20, cumulative=False)</pre>
<input checked="" type="radio"/> Natural Language Processing - Author Stylometry - Part 04 (unit? unit=192&lesson=197)	
<input checked="" type="radio"/> Natural Language Processing - Author Stylometry - Part 05 (unit? unit=192&lesson=198)	
<input checked="" type="radio"/> Natural Language Processing - Author Stylometry - Part 06 (unit? unit=192&lesson=199)	
<input type="radio"/> Natural Language Processing - Author Stylometry -	

Part 07 (unit?
unit=192&lesson=200)

- Natural
Language
Processing -
Author
Stylometry -
Part 08 (unit?
unit=192&lesson=201)



- Natural
Language
Processing -
Author
Stylometry -
Part 09 (unit?
unit=192&lesson=202)

- Natural
Language
Processing -
Author
Stylometry -
Part 10 (unit?
unit=192&lesson=203)

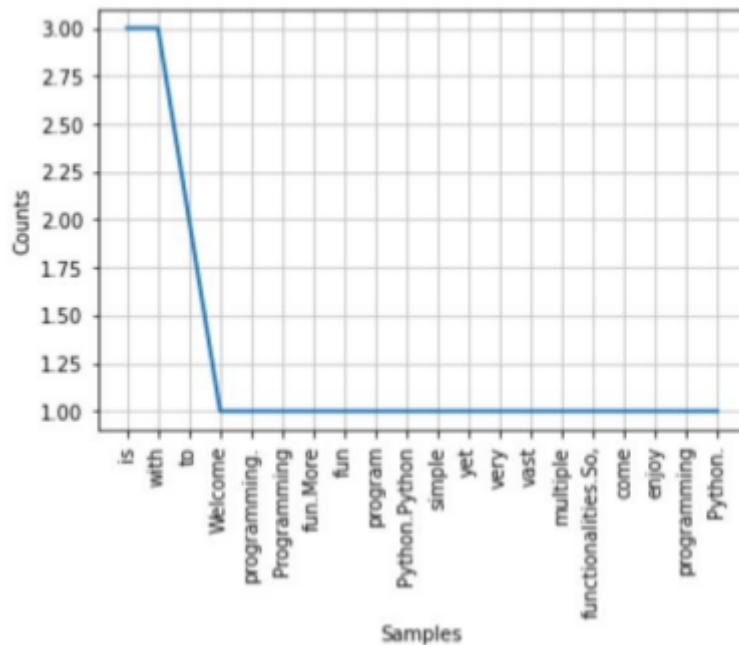
- Introduction to
Networkx -
Part 01 (unit?
unit=192&lesson=204)

- Introduction to
Networkx -
Part 02 (unit?
unit=192&lesson=205)

- Six Degrees of
Separation :
Meet your
favourites
(unit?
unit=192&lesson=206)

- Six Degrees of
Separation :
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Part 01 (unit?
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- Six Degrees of
Separation :
Meet your
favourites -
Part 02 (unit?
unit=192&lesson=208)



- Six Degrees of Separation :
Meet your favourites -
Part 03 (unit?
unit=192&lesson=209)

- Area
Calculation -
Don't Measure
(unit?
unit=192&lesson=210)

- Area
Calculation -
Don't Measure
- Part 01 (unit?
unit=192&lesson=211)

- Area
Calculation -
Don't Measure
- Part 02 (unit?
unit=192&lesson=212)

- Area
Calculation -
Don't Measure
- Part 03 (unit?
unit=192&lesson=213)

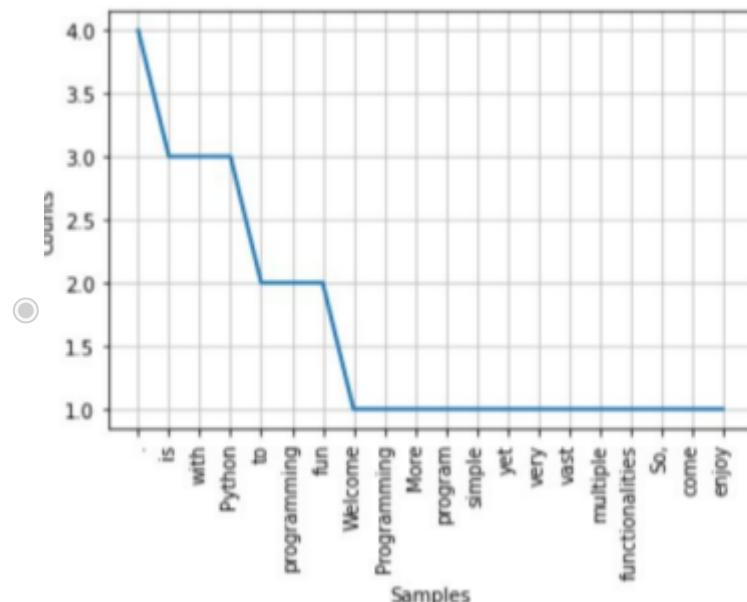
- Area
Calculation -
Don't Measure
- Part 04 (unit?
unit=192&lesson=214)

- Area
Calculation -
Don't Measure
- Part 05 (unit?
unit=192&lesson=215)

- Area
Calculation -
Don't Measure
- Part 06 (unit?
unit=192&lesson=216)

- Week 9
Programming
Assignment 1
(/noc21_cs32/progassignment?
name=319)

- Week 9
Programming
Assignment 2

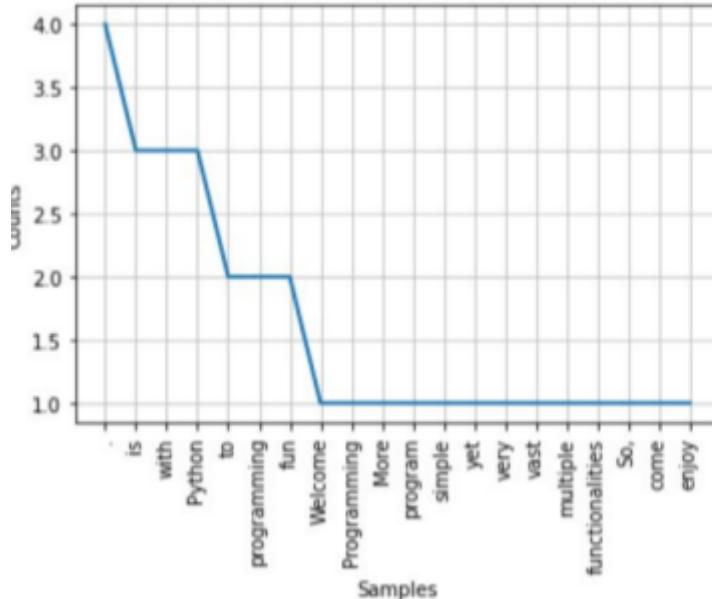


none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:



5) Strings in python can be created using

1 point

- single quotes
- double quotes
- triple quotes
- only A and B
- A, B and C

(/noc21_cs32/progassignment?name=320) Yes, the answer is correct.
Score: 1

Accepted Answers:
A, B and C

Week 9

Programming
Assignment 3

(/noc21_cs32/progassignment?name=322)

6) Networkx in python is used for which of the following operation(s)?

1 point

- Visualizing social network
- Analyzing social network
- Generate social network
- All of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:
All of the above

7) Which of the following will generate a complete graph in python using Networkx package?

1 point

- Graph = nx.gnp_random_graph(25,0.5)
- Graph = nx.gnp_random_graph(25,1.0)
- Graph = nx.gnp_random_graph(25,0.25)
- Graph = nx.gnp_random_graph(25,0.75)

Yes, the answer is correct.
Score: 1

Accepted Answers:
Graph = nx.gnp_random_graph(25,1.0)

8) Degree of separation of a complete graph with n nodes is always

1 point

- n
- n-1
- 1
- 6

Yes, the answer is correct.
Score: 1

Accepted Answers:
1

9) Which of the following is true about six degrees of separation?

1 point

- the minimum degree of separation of any node in the network is 6
- the maximum degree of separation of any node in the network is 6
- the average degree of separation of the nodes in the network is 6
- the degree of separation of every node in the network is 6

Yes, the answer is correct.
Score: 1

Accepted Answers:
the average degree of separation of the nodes in the network is 6

10) Which of the following method will return the RBG value of a pixel in python?

1 point

- getpixel()
- RBGvalue()
- pixelValue()
- none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

getpixel()

X



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Assignment 10

The due date for submitting this assignment has passed.

Due on 2021-03-31, 23:59 IST.

Assignment submitted on 2021-03-31, 08:14 IST

- 1) The game "FLAMES" represents which of the following mathematics question? 1 point

- Josephus problem
- Euclid's problem
- Euler's problem
- none of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Josephus problem

- 2) Predict the output of the following code 1 point

```
import string
S = "Hello"
S = S.uppercase()
print(S)
```

- HELLO
- Hello

<input checked="" type="radio"/> FLAMES - Part 01 (unit? unit=218&lesson=219)	<input type="radio"/> hello <input checked="" type="radio"/> error	Yes, the answer is correct. Score: 1 Accepted Answers: error	
<input checked="" type="radio"/> FLAMES - Part 02 (unit? unit=218&lesson=220)		3) Predict the output of the following code	1 point
<input checked="" type="radio"/> FLAMES - Part 03 (unit? unit=218&lesson=221)			
<input type="radio"/> FLAMES - Part 04 (unit? unit=218&lesson=222)			
<input type="radio"/> FLAMES - Part 05 (unit? unit=218&lesson=223)			
<input type="radio"/> FLAMES - Part 06 (unit? unit=218&lesson=224)			
<input checked="" type="radio"/> Data Compression - Part 01 (unit? unit=218&lesson=225)			
<input checked="" type="radio"/> Data Compression - Part 02 (unit? unit=218&lesson=226)			
<input checked="" type="radio"/> Data Compression - Part 03 (unit? unit=218&lesson=227)			
<input checked="" type="radio"/> Data Compression - Part 04 (unit? unit=218&lesson=228)			
<input type="radio"/> Data Compression - Part 05 (unit? unit=218&lesson=229)			
<input checked="" type="radio"/> Week 10 Programming Assignment 1 (/noc21_cs32/progassignment? name=330)			
<input checked="" type="radio"/> Week 10 Programming Assignment 2 (/noc21_cs32/progassignment? name=329)			
		import string s1 = "Hello" s2 = "good morning" s = s1+s2 s = s.replace(" ","") print(s)	
		<input checked="" type="radio"/> Hellogoodmorning <input type="radio"/> Hello goodmorning <input type="radio"/> Hello good morning <input type="radio"/> error	
		Yes, the answer is correct. Score: 1 Accepted Answers: Hellogoodmorning	
		4) What does the following code snippet in python print?	1 point
		import string s = "Cinderella" print(s[2:5])	
		<input type="radio"/> der <input type="radio"/> ind <input checked="" type="radio"/> nde <input type="radio"/> de	
		Yes, the answer is correct. Score: 1 Accepted Answers: nde	
		5) In python, the default value of start and end index of list slicing are which of the following options?	1 point
		<input type="radio"/> 1, length of the list <input checked="" type="radio"/> 0, length of the list	

Week 10
 Programming Assignment 3
 (/noc21_cs32/progassignment3
 name=332)

Quiz :
Assignment 10
(assessment? name=333)

Week 10
 Feedback
 Form : The Joy of Computing using Python (unit?
 unit=218&lesson=230)

Week 11

Week 12

Text Transcripts

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April 10
 Programming test - Session 1
 (10AM to 11AM)

April 10
 Programming test - Session 2
 (8PM to 9PM)

Live Session

- 0, length of the list -1
- 1, length of the list -1

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 0, length of the list

- 6) Which of the following is not a functionality of string in python?

1 point

- lower()
- replace()
- isalpha()
- append()

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 append()

- 7) Predict the output

1 point

```
import numpy as np
arr = np.array([[1,2,3],[4,5,6]])
print(type(arr))
```

- class 'numpy.2darray'
- int32
- class 'numpy.ndarray'
- error

Yes, the answer is correct.
 Score: 1

Accepted Answers:
 class 'numpy.ndarray'

- 8) Which of the following code snippet will print transpose of the matrix a?

1 point

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

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

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

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

- 9) Which of the following will print column sum of the matrix a?

1 point

- `import numpy as np
a = np.array([[1,2],[3,4]])
print(np.sum(a, axis=0))`

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

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

- `import numpy as np
a = np.array([[1,2],[3,4]])
print(np.colsum(a))`

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
import numpy as np
a = np.array([[1,2],[3,4]])
print(np.sum(a, axis=0))
```

10) Image compression is always a lossy compression.

1 point

True

False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

X



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Assignment 11

The due date for submitting this assignment has passed.

Due on 2021-04-07, 23:59 IST.

Assignment submitted on 2021-04-07, 13:57 IST

- 1) The python library selenium is used for which of the following concepts 1 point

- File Handling
- Image processing
- Natural Language Processing
- Browser automation

Yes, the answer is correct.

Score: 1

Accepted Answers:

Browser automation

- 2) Which of the following is true about Browser automation? 1 point

- load and performance testing on the websites
- web data extraction
- automated testing
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

- 3) The python function for converting a number into a string is 1 point

● Browser
Automation
Watsapp using
Python - Part
01 (unit?
unit=231&lesson=232)

- numtostring()
- str()
- to_string()
- numstring()

Yes, the answer is correct.
Score: 1

● Browser
Automation
Watsapp using
Python - Part
02 (unit?
unit=231&lesson=233)

Accepted Answers:
str()

4) Which of the following is the python library for setting the timezone?

1 point

- pytimezone
- pythonTimeZone
- timezone
- pytz

Yes, the answer is correct.
Score: 1

● Browser
Automation
Watsapp using
Python - Part
03 (unit?
unit=231&lesson=234)

Accepted Answers:
pytz

5) Which of the following code snippet will print today's date?

1 point

- `from datetime import date`
- `today = date.today()`
- `from datetime import datetime`
- `today = datetime.now()`

Both A and B
 none

Yes, the answer is correct.
Score: 1

● Fun with
Calendar - Part
01 (unit?
unit=231&lesson=236)

Accepted Answers:
Both A and B

6) Predict the output:

1 point

```
import calendar
yy = 2017
mm = 11
dd = 15
print(calendar.month(yy, mm))
```

● Fun with
Calendar - Part
04 (unit?
unit=231&lesson=239)

● Fun with
Calendar - Part
05 (unit?
unit=231&lesson=240)

● Fun with
Calendar - Part
06 (unit?
unit=231&lesson=241)

- Fun with Calendar - Part 07 (unit? unit=231&lesson=242)

- Fun with Calendar - Part 08 (unit? unit=231&lesson=243)

- Fun with Calendar - Part 09 (unit? unit=231&lesson=244)

- Fun with Calendar - Part 10 (unit? unit=231&lesson=245)

- Fun with Calendar - Part 11 (unit? unit=231&lesson=246)

- Fun with Calendar - Part 12 (unit? unit=231&lesson=247)

- Quiz :**
Assignment 11
(assessment? name=334)

- Week 11 Feedback Form : The Joy of Computing using Python (unit? unit=231&lesson=248)

- Week 11 Programming Assignment 1 (/noc21_cs32/progassignment? name=341)

- Week 11 Programming Assignment 2 (/noc21_cs32/progassignment? name=343)

- Week 11 Programming Assignment 3

November 2017

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5		
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

November 2017

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5		
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

15 November 2017

Error

Yes, the answer is correct.
Score: 1

Accepted Answers:

November 2017

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5		
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

- 7) What does the following code print?

1 point

```
import calendar
print (calendar.leapdays(2000, 2020))
```

Number of leapdays between the specified years

Lists all leapdays between the specified years

Lists the leapdays and its count between the specified years

None

Yes, the answer is correct.
Score: 1

Accepted Answers:

Number of leapdays between the specified years

(/noc21_cs32/progassignm8)t? What does the python function: calendar.weekday(year, month, day) return if the name=342) weekday is Friday? 1 point

Week 12

Text Transcripts

Download Videos

Books

April 10

Programming test - Session 1
(10AM to 11AM)

April 10

Programming test - Session 2
(8PM to 9PM)

Live Session

- 3
- 4
- 5
- 6

Yes, the answer is correct.

Score: 1

Accepted Answers:

4

9) What is the return value of the following python function : datetime.datetime.utcnow() 1 point

- returns the coordinated universal time
- returns the current user time
- returns the coordinated user time
- returns the concurrent universal time

Yes, the answer is correct.

Score: 1

Accepted Answers:

returns the coordinated universal time

10) Which of the following is the correct code to find whether a given year is a leap year or not? 1 point



```
year = int(input())
if (year % 100) or (year % 400) == 0:
    print("leap year")
else:
    print("not a leap year")
```



```
year = int(input())
if (year % 100) == 0:
    if (year % 400) == 0:
        print("leap year")
    else:
        print("not a leap year")
else:
    print("leap year")
```

```
year = int(input())
if (year % 4) == 0:
    if (year % 100) == 0:
        if (year % 400) == 0:
            print("leap year")
        else:
            print("not a leap year")
    else:
        print("leap year")
else:
    print("not a leap year")
```

```
year = int(input())
if (year % 100) or (year % 400) == 0:
    print("leap year")
else:
    print("not a leap year")
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
year = int(input())
if (year % 4) == 0:
    if (year % 100) == 0:
        if (year % 400) == 0:
            print("leap year")
        else:
            print("not a leap year")
    else:
        print("leap year")
else:
    print("not a leap year")
```

X



(https://swayam.gov.in)



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

getpythoncode@gmail.com ▾

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 12

Your last recorded submission was on 2021-04-07, 19:17 IST Due date: 2021-04-14, 23:59 IST.

1) Which of the following is true about the web graph used for performing Google page ranking? 1 point

- nodes are the hyperlinks and edges are the web pages
- nodes are the web pages and edges are the hyperlinks
- nodes and edges both represent hyperlinks
- nodes and edges both represent web pages

2) In page ranking, the most impressive person is the person liked by maximum number of people. 1 point

- TRUE
- FALSE

3) What is not true about page ranking algorithm? 1 point

- involves a random walk around the network
- involves a drunkard walk around the network
- high ranked node is the one with maximum visits
- high ranked node is the one with maximum hyperlink

4) In page ranking algorithm

1 point

- we always begin ranking from the first node.
- we randomly move from one node to another
- we stop at the sink node
- All the above statements are true

Week 12

- Page Rank -
How does
Google Work ?
- Part 01 (unit?
unit=249&lesson=250)
- Page Rank -
How does
Google Work ?
- Part 02 (unit?
unit=249&lesson=251)
- Page Rank -
How does
Google Work ?
- Part 03 (unit?
unit=249&lesson=252)
- Page Rank -
How does
Google Work ?
- Part 04 (unit?
unit=249&lesson=253)
- Page Rank -
How does
Google Work ?
- Part 05 (unit?
unit=249&lesson=254)
- Page Rank -
How does
Google Work ?
- Part 06 (unit?
unit=249&lesson=255)
- Page Rank -
How does
Google Work ?
- Part 07 (unit?
unit=249&lesson=256)
- Page Rank -
How does
Google Work ?
- Part 08 (unit?
unit=249&lesson=257)
- Page Rank -
How does
Google Work ?
- Part 09 (unit?
unit=249&lesson=258)
- Page Rank -
How does

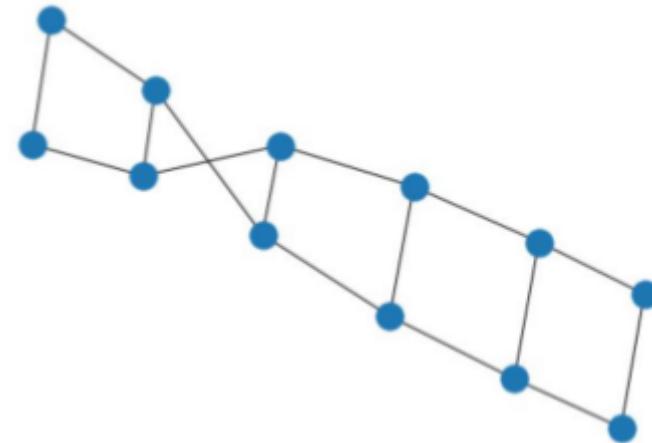
5) In Barbell graph() function of Networkx

1 point

- the first parameter represents number of communities and the second parameter represents number of nodes in-between the communities
- the first parameter represents number of nodes in the two communities and the second parameter represents number of nodes in-between the communities
- the first parameter represents number of nodes in-between the communities and the second parameter represents number of nodes in the two communities
- the first parameter represents number of nodes in-between the communities and the second parameter represents number of communities

6) What is the type of the following graph?

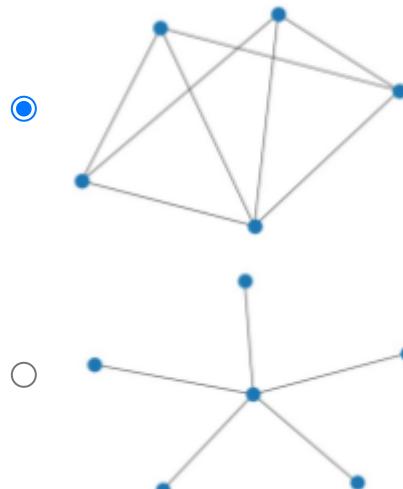
1 point



- star graph
- barbell graph
- ladder graph
- wheel graph

7) Which of the following graph represent a Wheel graph of 5 nodes?

1 point



Google Work ?

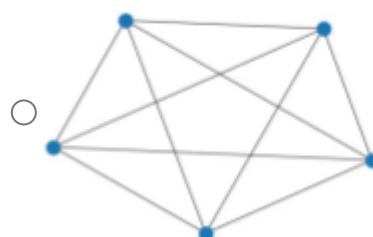
- Part 10 (unit?
unit=249&lesson=259)



Page Rank -

How does
Google Work ?

- Part 11 (unit?
unit=249&lesson=260)



Page Rank -

How does
Google Work ?

- Part 12 (unit?
unit=249&lesson=261)

Page Rank -

How does
Google Work ?

- Part 13 (unit?
unit=249&lesson=262)

- 8) What is the next step in page ranking algorithm, if the current node in the walk is a sink 1 point ?

the algorithm stops

the next node is selected randomly from the given set of nodes present in the graph

the next node is selected randomly from the list of neighbours of the current node

the algorithm restarts from the current node

Page Rank -

How does
Google Work ?

- Part 14 (unit?
unit=249&lesson=263)

- 9) Which of the following is a directed network? 1 point

Social Networking

Supply Chain networks

Citation Network

All of the above

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

random.float()

random.randomfloat()

random.frandom()

random.random()

Collatz

Conjecture -

Part 01 (unit?

unit=249&lesson=266)

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

Submit Answers

Collatz

Conjecture -

Part 02 (unit?

unit=249&lesson=267)

JOC

Conclusion

(unit?

unit=249&lesson=268)

Quiz :

Assignment

12

**(assessment?
name=335)**

○ Week 12
Feedback
Form : The Joy
of Computing
using Python
(unit?
unit=249&lesson=269)

● Week 12
Programming
Assignment1
(/noc21_cs32/progassignment?
name=344)

● Week 12
Programming
Assignment 2
(/noc21_cs32/progassignment?
name=345)

● Week 12
Programming
Assignment 3
(/noc21_cs32/progassignment?
name=346)

Text Transcripts

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Books

April 10
Programming
test - Session 1
(10AM to 11AM)

April 10
Programming
test - Session 2
(8PM to 9PM)

Live Session