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Courses » The Joy of Computing using Python

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Unit 3 - Week 1: Introduction

Course outline

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[Week 1: Introduction](#)

- [● Introduction to Programming](#)
- [● Why Programming?](#)
- [● Programming for Everybody](#)
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- [● Where to start?](#)
- [● Why do we have so many languages?](#)
- [● How to go about programming?](#)
- [● Why to learn programming?](#)
- [○ What is programming?](#)
- [○ How to give instructions?](#)
- [● Introduction to Scratch](#)

Assignment 1

The due date for submitting this assignment has passed.

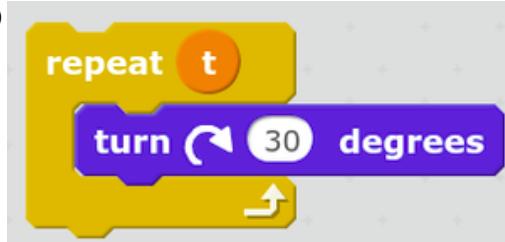
Score: 6/10=60%

Due on 2018-08-15, 23:59 IST.

Assignment submitted on 2018-07-27, 16:00 IST

1)

1 point



What should be the value of t so that the sprite shall complete one full rotation?

- 3
- 6
- 9
- 12

Yes, the answer is correct.

Score: 1

Accepted Answers:

12

2) Which of the following can be used to communicate across multiple sprites?

1 point

- broadcast messages
- wait option
- sounds options
- join operator

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Problem

- Scratch : Animation 1
- Scratch : Animation 2
- Scratch : Animation 3
- More on Scratch
- Quiz : Assignment 1

Week 1 Feedback

Week 2: Introduction to Python

Week 3: Cool Ideas (Part 1)

Week 4: Cool Ideas (Part 2)

Week 5: Cool Ideas (Part 3)

Week 6: Cool Ideas (Part 4)

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Week 8: Cool Ideas (Part 6)

Week 9: Cool Ideas (Part 7)

Week 10: Cool Ideas (Part 8)

Week 11

Week 12

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pick random 1 to 10

Which of the following can never be an output of the above statement?

- 3
- 6
- 9
- 12

Yes, the answer is correct.

Score: 1

Accepted Answers:

12

4) Which of the following options was used to make the sprite disappear from the animation **1 point** stage?

- disappear
- vanish
- hide
- show

Yes, the answer is correct.

Score: 1

Accepted Answers:

hide

5) Which of the following is a facility provided by Scratch to use sound effects? **1 point**

- A sound library is provided
- We can record sound using a microphone
- We can use a sound file
- All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

6) In addition to an option of using the inbuilt sprite library in Scratch, what are the other way(s) to use a sprite? **1 point**

- You can paint a custom sprite
- Upload an image file from your computer
- You can use camera to take pictures
- All the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All the above

7) Given first name and last name of a person, which of the following operators in Scratch can **1 point** be used to obtain the full name?

- merge
- join
- combine
- concatenate

No, the answer is incorrect.

Score: 0

Accepted Answers:

join

8) Which of the following commands would make the sprite move backwards? 1 point

- Move 10 steps
- Move -10 steps
- Both (a) and (b)
- Neither (a) nor (b)

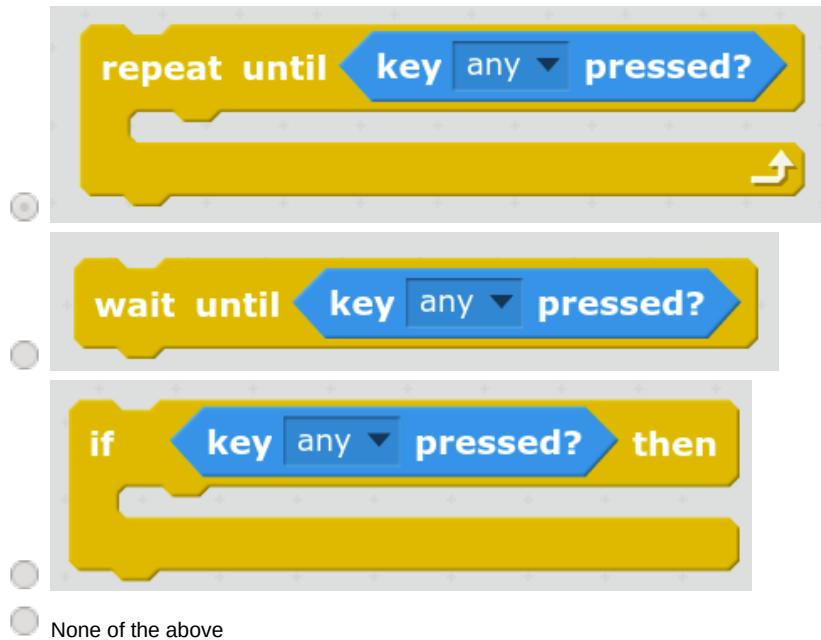
Yes, the answer is correct.

Score: 1

Accepted Answers:

Move -10 steps

9) Which of the following constructs carries out a set of instructions as long as any key in the 1 point keyboard is pressed?

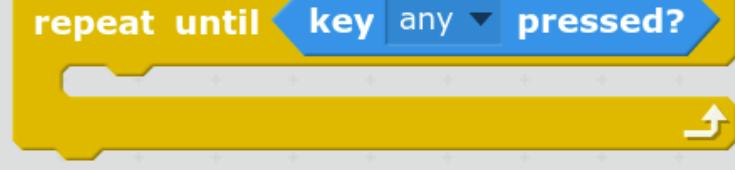


None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:



10) Which of the following Scratch constructs are used to keep doing a set of instructions 1 point

infinitely?

- continue
- always
- forever
- do

No, the answer is incorrect.

Score: 0

Accepted Answers:

forever

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Unit 4 - Week 2: Introduction to Python

Course outline

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- Introduction to Anaconda

- Installation of Anaconda

- Introduction to Spyder IDE

- Printing statements in Python

- Understanding Variables in Python

- Executing a sequence of instructions in the Console

- Writing your First Program

- Taking inputs from the user

Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-08-15, 23:59 IST.

1) What is the **value of a** after this sequence of instructions is carried out? **1 point**

```
a=0
for i in range(10):
    a=a+1
```

- 9
- 10
- 11
- 12

No, the answer is incorrect.

Score: 0

Accepted Answers:

10

2) What is the output when the following sequence of instructions is carried out in the console? **1 point**

```
a=1;a=a+1;a=a+2;a=a+3;print(a)
```

- 4
- 5
- 6
- 7

No, the answer is incorrect.

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- Understanding if condition's working

ce De
print(c*3)

- 15
- 8
- 2
- 555

- Realizing the importance of syntax and indentation
- Introductions to loops

- Loops: Sum of numbers

- Loops: Sum of numbers (continued)

- Loops: Multiplication Tables

- Introduction to While Loop

- Programming Assignment 1: Printing a message

- Programming Assignment 2: Currency Conversion

- Programming Assignment 3: Profit or Loss

- Quiz : Assignment 2

- Week 2 Feedback

Week 3: Cool Ideas (Part 1)

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Week 8: Cool Ideas(Part 6)

Week 9: Cool Ideas(Part 7)

Week 10: Cool Ideas(Part 8)

Week 11

No, the answer is incorrect.

Score: 0

Accepted Answers:

555

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

```
s1="IIT " #Remember there is a space after T in IIT
s2="Punjab"
s1=s1*2
s2="Ropar"
print(s1,s2)
```

- IIT IIT Punjab
- IIT Punjab
- IIT IIT Ropar
- IIT Ropar

No, the answer is incorrect.

Score: 0

Accepted Answers:

IIT IIT Ropar

5) What is the value of x at the end of the following sequence of instructions? 1 point

```
x=10
x=x*3
x=x+5
```

- 15
- 30
- 35
- 45

No, the answer is incorrect.

Score: 0

Accepted Answers:

35

6) What is the value stored in the variable answer at the end of executing the following snippet? 1 point

```
answer=1
for n in range(5):
    answer=answer*2
```

- 7
- 10
- 25

Week 12**DOWNLOAD VIDEOS**

32

No, the answer is incorrect.**Score: 0****Accepted Answers:**

32

7) What does the arithmetic operator % do?

1 point

- Finds the sum of two numbers
- Finds the quotient on dividing two numbers
- Finds the remainder on dividing two numbers
- Finds the product of two numbers

No, the answer is incorrect.**Score: 0****Accepted Answers:***Finds the remainder on dividing two numbers*

8) What happens when the following code is executed?

1 point

```
n=5  
if(n>1):  
    print("Hello")
```

- Hello
- Syntax error is thrown
- Indentation error is thrown
- Nothing happens

No, the answer is incorrect.**Score: 0****Accepted Answers:***Indentation error is thrown*

9) What happens when the following code is executed?

1 point

```
n=5  
if(n>1)  
    print("Hello")
```

- Hello
- Syntax error
- Indentation error
- Nothing happens

No, the answer is incorrect.**Score: 0****Accepted Answers:***Syntax error*

10) What is the output of the following snippet?

1 point

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

- 0

1
2
 0

1
2
3

1
2
 1

2
3

No, the answer is incorrect.

Score: 0

Accepted Answers:

0
1
2

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Unit 5 - Week 3: Cool Ideas (Part 1)

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Lists Part 1 : Introduction

Lists Part 2 : Manipulation

Lists Part 3 : Operations

Lists Part 4 : Slicing

Loops and Conditionals : Fizzbuzz 01

Loops and Conditionals : Fizzbuzz 02

Crowd Computing - Just estimate 01

Assignment 3

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-09-05, 23:59 IST.

1) Consider the following snippet:

1 point

```
def test(n):
    if n%7==0:
        print('Hipp Hipp Hurrah')
    else:
        print('Alas')
```

What would be the output of test(27)?

- Hipp Hipp Hurrah
- Hipp
- Hurrah
- Alas

No, the answer is incorrect.

Score: 0

Accepted Answers:

Alas

2) Which of the following Python snippets would print the values from 1 to 10?

1 point

- for i in range(10):
 print(i)
- for i in range(11):
 print(i)
- for i in range(1,10):
 print i
-

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|--|---|
| <p>03 <input type="radio"/> Crowd Computing - Just estimate 04 <input type="radio"/> Crowd Computing - Just estimate 05 <input type="radio"/> Crowd Computing - Just estimate 06 <input type="radio"/> Permutations - Jumbled Words 01 <input type="radio"/> Permutations - Jumbled Words 02 <input type="radio"/> Permutations - Jumbled Words 03 <input type="radio"/> Theory of Evolution 01 <input type="radio"/> Theory of Evolution 02 <input type="radio"/> Theory of Evolution 03 <input type="radio"/> Theory of Evolution 04 <input type="radio"/> Programming Assignment 1 : Average <input type="radio"/> Programming Assignment 2 : List Slicing <input type="radio"/> Programming Assignment 3 : Divisibility <input type="radio"/> Quiz : Assignment 3 <input type="radio"/> Week 3 Feedback</p> <p>Week 4: Cool Ideas (Part 2)</p> <p>Week 5: Cool Ideas (Part 3)</p> <p>Week 6: Cool Ideas (Part 4)</p> <p>Week 7: Cool Ideas (Part 5)</p> <p>Week 8: Cool Ideas (Part 6)</p> | <p style="color: green;"><i>print(i)</i></p> <p>3) What does the following snippet print? 1 point</p> <pre>for i in range(11,16): if i%2==0: print('Jack') elif i%3==0: print('Jill') elif i%2==0 and i%3==0: print('Jack and Jill') else: print('Jill and Jack')</pre> <p><input checked="" type="radio"/> Jill and Jack <input type="radio"/> Jack and Jill <input type="radio"/> Jill and jack <input type="radio"/> Jack <input type="radio"/> Jill <input checked="" type="radio"/> Jill and Jack <input type="radio"/> Jack <input type="radio"/> Jill and jack <input type="radio"/> Jack <input type="radio"/> Jill <input checked="" type="radio"/> Jack and Jill <input type="radio"/> Jill <input type="radio"/> Jack and Jill <input type="radio"/> Jack <input type="radio"/> Jill <input checked="" type="radio"/> Jill and Jack <input type="radio"/> Jill <input type="radio"/> Jill and jack <input type="radio"/> Jack <input type="radio"/> Jill</p> <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>Jill and Jack</i> <i>Jack</i> <i>Jill and jack</i> <i>Jack</i> <i>Jill</i></p> <p>4) If the word in your mind is CAT, in how many ways can you pose the jumbled question? 1 point</p> <p><input checked="" type="radio"/> 1 <input type="radio"/> 3 <input type="radio"/> 5 <input type="radio"/> 7</p> <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>5</i></p> <p>5) Given the following jumbled word, guess the correct English word: 1 point</p> |
|--|---|

Week 9: Cool Ideas(Part 7)

Week 10: Cool Ideas(Part 8)

Week 11

Week 12

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PUCROTEM

- CROPUTEM
- CROPETUM
- CROTEMPU
- COMPUTER

No, the answer is incorrect.

Score: 0

Accepted Answers:

COMPUTER

6) Which of the following can be a valid output of the statement

1 point

`random.choice([10,20,30,40])`

- 1
- 3
- 4
- 10

No, the answer is incorrect.

Score: 0

Accepted Answers:

10

7) When a file is opened in 'a' mode

1 point

- You don't have any rights to access the file
- You can only read the contents of the file
- You can write contents to the end of the existing file contents.
- You can write new contents onto the file but once you write new contents existing contents would be overritten

No, the answer is incorrect.

Score: 0

Accepted Answers:

You can write contents to the end of the existing file contents.

8) Which of the following **can be** an output of

1 point

`random.randint(1,10)`

but can never be an output of

`random.randrange(1,10)` ?

- 1
- 0
- 1
- 10

No, the answer is incorrect.

Score: 0

Accepted Answers:

10

9) If **g^** is passed as a parameter along with plot function of matplotlib.pyplot, how would the **1 point** data points be represented?

- green squares
- green diamonds
- green triangles
- green circles or dots

No, the answer is incorrect.

Score: 0

Accepted Answers:

green triangles

10) How is trimmed mean calculated?

1 point

- Sort the values then remove top 10% or bottom 10% of the values
- Sort the values then remove top 10% and bottom 10% of the values
- Sort the values then remove top 10% of the values
- Sort the values then remove bottom 10% of the values

No, the answer is incorrect.

Score: 0

Accepted Answers:

Sort the values then remove top 10% and bottom 10% of the values

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Unit 6 - Week 4: Cool Ideas (Part 2)

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[Week 3: Cool Ideas \(Part 1\)](#)

[Week 4: Cool Ideas \(Part 2\)](#)

- Practice is the key
- Magic Square: Hit and Trial 01
- Magic Square: Hit and Trial 02
- Magic Square: Hit and Trial 03
- Magic Square: Hit and Trial 04
- Magic Square: Hit and Trial 05
- Let's program and play

Assignment 4

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-09-05, 23:59 IST.

1) Guess the Movie name.

1 point

I_C_P_I_O_

- INCEPTION
- INTUITION
- INCUBATION
- INTERVENTION

No, the answer is incorrect.

Score: 0

Accepted Answers:

INCEPTION

2) In "Guess the Movie Name" game, what will happen if the player asks to open up a letter that is **not present** in the actual movie name?

1 point

- The game comes to an end and the player is declared a loser.
- The closest letter that precedes this requested letter in the alphabetical order and present in the actual movie name is opened up.
- The closest letter that succeeds this requested letter in the alphabetical order and present in the actual movie name is opened up.
- A message that the letter is not present is displayed then the game continues asking him to guess some other letter.

No, the answer is incorrect.

Score: 0

Accepted Answers:

A message that the letter is not present is displayed then the game continues asking him to guess some other letter.

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Spot the similarity 03

_ A __ A _ O _ E _ A Y _
 _____ O _ E _ _ Y _
 _____ O _ E _____

Dobble Game - Spot the similarity 04

What is your date of birth?

Birthday Paradox - Find your twin 01

Birthday Paradox - Find your twin 02

Birthday Paradox - Find your twin 03

Birthday Paradox - Find your twin 04

Birthday Paradox - Find your twin 05

What's your favourite movie?

Guess the Movie Name 01

Guess the Movie Name 02

Guess the Movie Name 03

Guess the Movie Name 04

Guess the Movie Name 05

Guess the Movie Name 06

Programming Assignments 1: Matrix

Programming Assignment - 2: Large Numbers

Programming Assignment 3: Order in Randomness

Quiz : Assignment 4

Week 4 Feedback

Week 5: Cool Ideas (Part 3)

Week 6: Cool Ideas (Part 4)

ce De

No, the answer is incorrect.

Score: 0

Accepted Answers:

B _ _ G A _ O _ _ D _ Y _

4) Consider a variation in the "Guess the Movie Name" game. Only English movies are **1 point** considered in the questions space. The points you get is variable as per the following **scheme**:

For example if the movie name is Avengers, the question is posed as _____.

If the player guesses correct s/he gets 8 points (as there are 8 letters which s/he found).

If the player unlocks E, question becomes _ _ E _ _ E _ _ . Now if s/he guesses right s/he gets 6 points.

If s/he unlocks A instead, the question becomes A _ E _ _ E _ _ . Now if s/he guesses right s/he gets 5 points.

There is no deduction in points if s/he guesses a letter not present in the Movie name.

In this game, if the player guesses the correct movie name when the question was _ A _ _ I _, how many points would s/he get?

- 2
- 4
- 6
- 8

No, the answer is incorrect.

Score: 0

Accepted Answers:

4

5) What is the **minimum** number of people, you must ask the month of their birth so as to **1 point** guarantee a collision (sharing of the birth month)?

- 11
- 13
- 15
- 18

No, the answer is incorrect.

Score: 0

Accepted Answers:

13

6) Which of the following is a correct solution to the 3 x 3 Magic Square puzzle?

1 point

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |

Week 7: Cool Ideas(Part 5)

Week 8: Cool Ideas(Part 6)

Week 9: Cool Ideas(Part 7)

Week 10: Cool Ideas(Part 8)

Week 11

Week 12

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| | | |
|---|---|---|
| 1 | 4 | 7 |
| 2 | 5 | 8 |
| 3 | 6 | 9 |

| | | |
|---|---|---|
| 4 | 1 | 7 |
| 2 | 5 | 8 |
| 3 | 9 | 6 |

| | | |
|---|---|---|
| 8 | 1 | 6 |
| 3 | 5 | 7 |
| 4 | 9 | 2 |

No, the answer is incorrect.

Score: 0

Accepted Answers:

| | | |
|---|---|---|
| 8 | 1 | 6 |
| 3 | 5 | 7 |
| 4 | 9 | 2 |

7) In any 3×3 magic square solution, the sum across the rows or columns or diagonals is **1 point** equal to:

- 5
- 10
- 15
- 20

No, the answer is incorrect.

Score: 0

Accepted Answers:

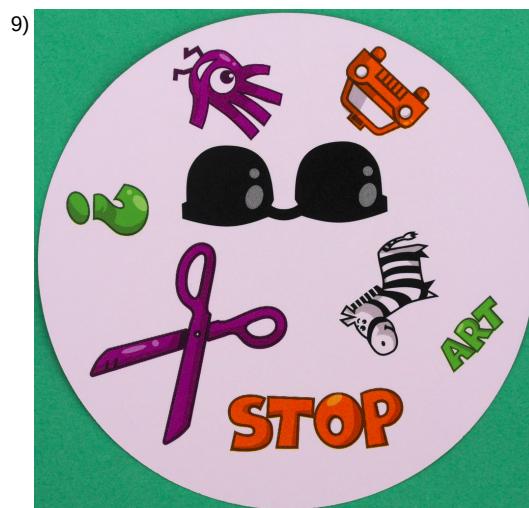
15

8) What is the range of numbers that will be filled in a 4×4 magic square?

1 point

- Numbers from 1 to 8
- Numbers from 1 to 16
- Numbers from 1 to 64
- Numbers from 1 to 32

No, the answer is incorrect.

Score: 0**Accepted Answers:***Numbers from 1 to 16*

What is the common symbol among these 2 cards?

- Scissors
- Cheese
- Cat
- Sun glasses or Goggles

No, the answer is incorrect.**Score: 0****Accepted Answers:***Sun glasses or Goggles*10) If there were 10 symbols in each card of the dobble game, how many comparisons should **1 point** one make at the **maximum** to find the common symbol?

- 20
- 50
- 100
- 200

No, the answer is incorrect.

Score: 0

Accepted Answers:

100

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Unit 7 - Week 5: Cool Ideas (Part 3)

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[Week 5: Cool Ideas \(Part 3\)](#)

Introduction to Dictionaries

Speech to Text : No need to write 01

Speech to Text : No need to write 02

Speech to Text : No need to write 03

Monte Hall : 3 doors and a

Assignment 5

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-09-14, 23:59 IST.

1) What happens when you search for 35 in the list [10,20,30,40,50]? **1 point**

- The program would handle the case by printing a suitable message that the element is not found
- The value 30 is returned as it is the closest number less than 35 that is present in the list
- The value 40 is returned as it is the closest number greater than 35 that is present in the list
- The program will abruptly come to an end without intimating anything to the user.

No, the answer is incorrect.

Score: 0

Accepted Answers:

The program would handle the case by printing a suitable message that the element is not found

2) Which of the following constraint needs to be satisfied so as to perform binary search? **1 point**

- The list must contain only numbers
- The list must contain odd number of elements
- The list must contain even number of elements
- The list must be sorted.

No, the answer is incorrect.

Score: 0

Accepted Answers:

The list must be sorted.

3) What will be the final list contents after the list [10,25,40,70,100] has been passed to a function that sorts the elements of a given list in ascending order? **1 point**

- [10,25,40,70,100]

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allowed !! 01

Rock, Paper and Scissor : Cheating not allowed !! 02

Rock, Paper and Scissor : Cheating not allowed !! 03

Rock, Paper and Scissor : Cheating not allowed !! 04

Sorting and Searching : 20 questions game 01

Sorting and Searching : 20 questions game 02

Sorting and Searching : 20 questions game 03

Sorting and Searching : 20 questions game 04

Sorting and Searching : 20 questions game 05

Sorting and Searching : 20 questions game 06

Sorting and Searching : 20 questions game 07

Sorting and Searching : 20 questions game 08

Programming Assignment 1: Dictionary

Programming Assignment 2: Robot and the Charger

Programming Assignment 3: Function and Dictionary

Quiz : Assignment 5

Week 5 Feedback

Accepted Answers:

[10,25,40,70,100]

4) What does the following snippet do when a list 'a' is passed to it?

1 point

```
for i in range( len(a) ):
    for j in range(i+1, len (a) ):
        if a[ i ]<a[ j ]:
            a[ i ] , a[ j ]=a[ j ] , a[ i ]
```

- It checks if the elements of a given list are in ascending order
- It checks if the elements of a given list are in descending order
- It sorts the elements of a given list in ascending order
- It sorts the elements of a given list in descending order

No, the answer is incorrect.

Score: 0

Accepted Answers:

It sorts the elements of a given list in descending order

5) In Rock, Paper, Scissors game, how many ways can the result be a draw?

1 point

- 3
- 6
- 9
- 12

No, the answer is incorrect.

Score: 0

Accepted Answers:

3

6) What should you choose in the Rock Paper Scissor game so that you can definitely guarantee your win?

1 point

- Rock
- Paper
- Scissor
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

None of the above

7) Consider the **secure** Rock Paper Scissors game.

1 point

Assume for both the players:

0->Rock

1->Paper

2 ->Scissors

Player 1's input : 1000010210

Player 2's input : 1012010211

Who won?

- Player 1

Week 6: Cool Ideas (Part 4)

Week 7: Cool Ideas(Part 5)

Week 8: Cool Ideas(Part 6)

Week 9: Cool Ideas(Part 7)

Week 10: Cool Ideas(Part 8)

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- Player 2
- Draw
- Data insufficient and hence winner cannot be determined.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Data insufficient and hence winner cannot be determined.

8) Consider this run of **secure** Rock Paper Scissor game:

1 point

No of digits used :10

Assume for player 1:

0->Rock

1->Paper

2->Scissors

Secret place holder position: 3rd digit from the left

Assume for player 2:

0->Scissors

1->Rock

2->Paper

Secret place holder position: 7th digit from the left

Inputs:

Player 1: 1200210121

Player 2: 1020201120

Who won?

- Player 1
- Player 2
- Draw

No, the answer is incorrect.

Score: 0

Accepted Answers:

Draw

9) Which file format is supported by Python Speech Recognition library?

1 point

- mp3
- wav
- aiff
- au

No, the answer is incorrect.

Score: 0

Accepted Answers:

wav

10) In the simple Monte Hall game, we had 3 doors and 1 door contained a prize. The player **1 point** has to guess which door could possibly contain the prize. That door would be opened and if it contains the prize he wins it.

If more doors are added, the player has more choices to guess. What do you think will happen to the probability (i.e. chance) of winning if more doors are added?

- Increases
- Decreases
- No change

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decreases

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[Substitution Cipher -The science of secrecy](#)

[Substitution Cipher -The science of secrecy 01](#)

[Substitution Cipher -The science of](#)

Assignment 6

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-09-12, 23:59 IST.

1) If AMIT is encoded as ZLHS and SIMRAN is encoded as RHLQZM, then how would VIDHYA be encoded as? **1 point**

- WJEIZB
- UHCGXZ
- XKFJAC
- TGBFWY

No, the answer is incorrect.

Score: 0

Accepted Answers:

UHCGXZ

2) If SUDARSHAN is encoded as YLSEFYWEG and BHAWANA is encoded as TWEUEGE, **1 point** how would SHUBH be encoded as?

- TIVCI
- RGTAG
- YWLTW
- WUTEG

No, the answer is incorrect.

Score: 0

Accepted Answers:

YWLTW

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

- Both Caesar cipher and Substitution cipher are the same

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Tic Tac Toe -
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01

Tic Tac Toe -
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02

Tic Tac Toe -
Down the
memory Lane
03

Tic Tac Toe -
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Tic Tac Toe -
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05

Recursion

Recursion 01

Recursion 02

Recursion 03

Recursion 04

Recursion 05

Recursion 06

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Assignment 6

Programming
Assignment - 1:
Duplicate

Programming
Assignment - 2:
The power of 2

Programming
Assignment 3:
Lower
Triangular
Matrix

Week 6
Feedback

Week 7: Cool Ideas(Part 5)

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Week 10: Cool Ideas(Part 8)

Week 11

Accepted Answers:

Caesar cipher is a special case of Substitution cipher

4) How many winning configurations are possible for a player in the Tic Tac Toe game?

1 point

- 2
- 4
- 6
- 8

No, the answer is incorrect.

Score: 0

Accepted Answers:

8

5) What is the game strategy used in the Tic Tac Toe game?

1 point

- Divide and Conquer
- Greedy Strategy
- Iterative Search
- Min-Max Strategy

No, the answer is incorrect.

Score: 0

Accepted Answers:

Min-Max Strategy

6)

1 point

| | | |
|---|---|---|
| X | O | O |
| O | X | X |
| X | X | O |

Identify the winner of this game.

- X
- O
- Draw

No, the answer is incorrect.

Score: 0

Accepted Answers:

Draw

7) Which of these statements is true?

1 point

- Recursion can solve a few problems which Iteration cannot.
- Iteration can solve a few problems which Recursion cannot.
- Anything that Recursion can solve can be solved by Iteration.

Week 12**DOWNLOAD VIDEOS**

Recursion and Iteration are totally unrelated.

No, the answer is incorrect.**Score: 0****Accepted Answers:***Anything that Recursion can solve can be solved by Iteration.*

8) Consider the following recursive function

1 point

```
def f(n):
    if n<0:
        return -1 * f (-1 * n)
    elif n==0:
        return 0
    else:
        return 4 + f (n-1)
```

What would be the output of f(8)?

- 12
- 4
- 32
- 2

No, the answer is incorrect.**Score: 0****Accepted Answers:**

32

9) What does the following function do?

1 point

```
def f(n):
    if n<0:
        return -1 * f (-1 * n)
    elif n==0:
        return 0
    else:
        return f(n-1)+2
```

- Adds 2 to n (i.e calculates n+ 2)
- Subtract 2 from n (i.e. calculates n - 2)
- doubles the value of n (i.e. calculates n * 2)
- halves the value of n (i.e. calculates the value of n / 2)

No, the answer is incorrect.**Score: 0****Accepted Answers:***doubles the value of n (i.e. calculates n * 2)*

10) A _____ matrix is required to implement tic tac toe.

1 point

- 4*4
- 5*5
- 2*2
- 3*3

No, the answer is incorrect.

Score: 0

Accepted Answers:

3*3

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Tuples- Python Data Structure

Lottery Simulation - Profit or Loss

Assignment 8

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-09-26, 23:59 IST.

1) Which of the following libraries is used for sentimental analysis in Python? **1 point**

- nltk
- gmplot
- random
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

nltk

2) Which of the following libraries takes into account the intensity of emotion related to sentiment analysis? **1 point**

- nltk
- pandas
- vader
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

vader

3) What is lexicon?

1 point

- It is a dictionary of words.
- ...

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| Part 02 <input type="radio"/> Lottery Simulation - Profit or Loss - Part 03 <input type="radio"/> Lottery Simulation - Profit or Loss - Part 04 <input type="radio"/> Lottery Simulation - Profit or Loss - Part 05 <input type="radio"/> Lottery Simulation - Profit or Loss - Part 06 <input type="radio"/> Image Processing - Enhance your images <input type="radio"/> Image Processing - Enhance your images - Part 01 <input type="radio"/> Image Processing - Enhance your images - Part 02 <input type="radio"/> Image Processing - Enhance your images - Part 03 <input type="radio"/> Anagrams <input type="radio"/> Anagrams - Part 01 <input type="radio"/> Anagrams - Part 02 <input type="radio"/> Anagrams - Part 03 <input type="radio"/> Anagrams - Part 04 <input type="radio"/> Facebook Sentiment Analysis <input type="radio"/> Facebook Sentiment Analysis - Part 01 <input type="radio"/> Facebook Sentiment Analysis - Part 02 <input type="radio"/> Facebook Sentiment Analysis - Part | <p><i>It is a dictionary of words.</i></p> <p>4) Which of the following is the correct syntax for sorted function? 1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> <code>x=[4,3,2,1]</code> <code>x.sorted()</code> <input checked="" type="radio"/> <code>x=[4,3,2,1]</code> <code>sorted(x)</code> <input checked="" type="radio"/> <code>x=[4,3,2,1]</code> <code>sorted.x()</code> <input type="radio"/> None of the above <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><code>x=[4,3,2,1]</code> <code>sorted(x)</code></p> <p>5) Which of the following functions can be used to find ASCII value of a character 'A'? 1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> <code>ord('A')</code> <input checked="" type="radio"/> <code>ASCII('A')</code> <input checked="" type="radio"/> <code>int('A')</code> <input type="radio"/> None of the above <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><code>ord('A')</code></p> <p>6) What are the anagrams present in the following sentences? 1 point</p> <p>One night, I was going through my old pictures. While going through the pictures, i observed one thing that all those pictures were captured during first year of graduation.</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> year and ear <input checked="" type="radio"/> study and dusty <input checked="" type="radio"/> tilt and litt <input checked="" type="radio"/> night and thing <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><code>night and thing</code></p> <p>7) Which of the following commands can be used to open an image named <code>gunshot.jpg</code> in Python? 1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> <code>i=file.open('gunshot.jpg')</code> <input checked="" type="radio"/> <code>i=img.open('gunshot.jpg')</code> <input checked="" type="radio"/> <code>i=Image.open('gunshot.jpg')</code> <input checked="" type="radio"/> <code>i=image.open('gunshot.jpg')</code> <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> |
|--|---|

03

 Facebook Sentiment Analysis - Part 04 Quiz : Assignment 8 Programming Assignment 1: Survive Programming Assignment 2: Repeat Programming Assignment 3: Push Week 8 Feedback**Week 9: Cool Ideas(Part 7)****Week 10: Cool Ideas(Part 8)****Week 11****Week 12****DOWNLOAD VIDEOS***i=Image.open('gunshot.jpg')*8) The transpose of $m \times n$ matrix is _____**1 point**

- $m \times 1$ matrix
- $n \times 1$ matrix
- $1 \times m$ matrix
- $n \times m$ matrix

No, the answer is incorrect.**Score: 0****Accepted Answers:***n*m matrix*

9) Which one of the following denotes an empty tuple?

1 point

- $t = []$
- $t = {}$
- $t = ()$
- $t = (0)$

No, the answer is incorrect.**Score: 0****Accepted Answers:***t=()*

10) Consider the scenario below:

1 point

Ram wants to play a lottery game in which he has to choose one ticket out of 10 tickets. If the ticket chosen by the participant is 9, then he wins 500\$. The prize for playing the lottery game is 100\$. Ram decides to play this game 10 times in order to guarantee his win. Would you advise him to play this game?

- Yes
- No
- Can't say

No, the answer is incorrect.**Score: 0****Accepted Answers:***No*[Previous Page](#)[End](#)

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Natural Language Processing

Assignment 9

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-10-03, 23:59 IST.

1) If the area of a country is 5400 km², calculate the area of a state present in the country. (If points are placed randomly in the map of the country, then number of points in the country(except the state) is 70 and number of points in the state is 23.) **1 point**

- 1774.3 Km²
- 502 Km²
- 1774.3 m²
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

1774.3 Km²

2) networks.shortest_path_length(G,x,y)

1 point

What do variables x and y represent here?

- x represents target and y represents source
- x represents target and y represents target
- x represents source and y represents source
- x represents source and y represents target

No, the answer is incorrect.

Score: 0

Accepted Answers:

x represents source and y represents target

3) State True or False:

1 point

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| Part 01 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 02 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 03 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 04 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 05 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 06 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 07 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 08 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 09 <input type="radio"/> Natural Language Processing - Author Stylometry - Part 10 <input type="radio"/> Introduction to Networkx - Part 01 <input type="radio"/> Introduction to Networkx - Part 02 <input type="radio"/> Six Degrees of Separation : | <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>True</i></p> <p>4) How can we read an image in the form a matrix in Python? 0 points</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> i=scipy.misc.read("Image_name.png") <input type="radio"/> i=numpy.misc.read("Image_name.png") <input type="radio"/> i=Image.misc.read("Image_name.png") <input type="radio"/> None of the above <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>i=scipy.misc.read("Image_name.png")</i></p> <p>5) What is Stylometry? 1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Stylometry is qualitative study of literary style. <input type="radio"/> Stylometry is quantitative study of literary style. <input type="radio"/> Both <input type="radio"/> None of the above <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>Stylometry is quantitative study of literary style.</i></p> <p>6) Which of the following libraries is used for natural language processing? 1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> nlp <input type="radio"/> PIL <input type="radio"/> nltk <input type="radio"/> None of the above <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>nltk</i></p> <p>7) What does word_tokenize() function in nltk do? 1 point</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> It tokenises the text into sentences. <input type="radio"/> It tokenises the text into words. <input type="radio"/> It tokenises the text into characters. <input type="radio"/> None of the above <p>No, the answer is incorrect.</p> <p>Score: 0</p> <p>Accepted Answers:</p> <p><i>It tokenises the text into words.</i></p> <p>8) On an average, all human beings on this planet are _____ steps away from each other? 1 point</p> |
|--|--|

Meet your
favourites

- 6
- 5
- 4
- 3

Six Degrees of Separation : Meet your favourites - Part 01

Six Degrees of Separation : Meet your favourites - Part 02

Six Degrees of Separation : Meet your favourites - Part 03

Area Calculation - Don't Measure

Area Calculation - Don't Measure - Part 01

Area Calculation - Don't Measure - Part 02

Area Calculation - Don't Measure - Part 03

Area Calculation - Don't Measure - Part 04

Area Calculation - Don't Measure - Part 05

Area Calculation - Don't Measure - Part 06

Programming Assignment-1: Palindrome

Programming Assignment-2: Smallest Palindrome

Programming Assignment-3: Holes

Quiz : Assignment 9

Week 9 Feedback

Week 10: Cool

No, the answer is incorrect.

Score: 0

Accepted Answers:

6

9) What is Project Gutenberg?

1 point

- It is a repository comprising of free images.
- It is a repository comprising of free music.
- It is a repository comprising of free ebooks.
- None of the above.

No, the answer is incorrect.

Score: 0

Accepted Answers:

It is a repository comprising of free ebooks.

10) How can nodes be added to a graph using networkx package?

1 point

- G=networkx.Graph()
G.add_node(1)
- G=networkx.Graph()
add_node(1)
- networkx.add_node(1)
- nx.add_node(1)

No, the answer is incorrect.

Score: 0

Accepted Answers:

*G=networkx.Graph()
G.add_node(1)*

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Ideas(Part 8)

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Assignment 10

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2018-10-10, 23:59 IST.

1) What is the relationship between SAKSHI and AKASH according to the game FLAMES? **1 point**

- Love
- Enemy
- Marriage
- Friends

No, the answer is incorrect.

Score: 0

Accepted Answers:

Friends

2) State True or False. **1 point**

`numpy.asarray(input)` converts input to an ndarray. Here, input can be images, scalars, lists, lists of tuples, tuples, tuples of tuples, tuples of lists.

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

3) What is the count obtained after cancelling the common letters between ALIA and ANKIT **1 point** according to the game FLAMES?

- 3
- 4

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- FLAMES - Part 04
- FLAMES - Part 05
- FLAMES - Part 06
- Data Compression - Part 01
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- Programming Assignment-2: Missing Number
- Programming Assignment-3: Rearrangement
- Quiz : Assignment 10
- Week 10 Feedback : The Joy of Computing using Python

Week 11**Week 12****DOWNLOAD VIDEOS**

4) Which Python module supports various operations on data type string?

1 point

- string
- list
- array
- str

No, the answer is incorrect.**Score: 0****Accepted Answers:***string*5) What is the output of the statement `print(numpy.array([1,2,3]))` in Python?**1 point**

- [1 2 3]
- ['1','2','3']
- [1],[2],[3]
- None of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***[1 2 3]*

6) import numpy as np

0 points

x=np.zeros(3,3)

What is x in the above code snippet?

- x is 1*3 matrix
- x is 3*3 matrix comprising of zeros.
- x is 3*3 matrix comprising of some garbage values.
- None of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***x is 3*3 matrix comprising of zeros.*

7) If a is 2*3 numpy array, what would the function a.shape() return?

0 points

- (2,)
- (3,)
- (2,3)
- None of the above

No, the answer is incorrect.**Score: 0****Accepted Answers:***(2,3)*

8)

1 point

```
import numpy as np
m=np.array([[99,101],[100,98]])
print(m.T)
```

What is the output of the above code snippet?

[[99 101]
[100 98]]

[[98 100]
[101 99]]

[[99 100]
[98 101]]

[[99 100]
[101 98]]

No, the answer is incorrect.

Score: 0

Accepted Answers:

*[[99 100]
[101 98]]*

9) Which of the following attributes is used to obtain picture size using PIL in Python? 1 point

- color
- size
- width
- height

No, the answer is incorrect.

Score: 0

Accepted Answers:

size

10) What is the output of the statement `print(s.lower())` if s='SIMRan' ? 1 point

- SIMRAN
- Simran
- SIMran
- simran

No, the answer is incorrect.

Score: 0

Accepted Answers:

simran

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