

Answer Submitted.

X



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

gireesh218@gmail.com ▾

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

[Announcements \(announcements\)](#) [About the Course \(preview\)](#) [Q&A \(forum\)](#) [Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

[Mentee List \(student/mentee\)](#) [Review Assignment \(assignment_review\)](#) [Course Recommendations New!](#) (/course_recommendations)



Course outline

[About NPTEL \(\)](#)

[How does an NPTEL online course work? \(\)](#)

[Week 0 \(\)](#)

[Practice: Week 0 : Assignment 0](#)

Week 0 : Assignment 0

Your last recorded submission was on 2024-09-24, 12:01 IST

Note : This assignment is only for practice purpose and it will not be counted towards the Final score

- 1) What is the next number in the sequence 4, 8, 16, _?

1 point

- 20
- 24
- 28
- 32



(assessment? name=442)	Yes, the answer is correct. Score: 1 Accepted Answers: 32	
Week 1 ()	2) What will be the sum of the sequence up to 5th term 9, 36, 144, 576, ...? 1 point	
Week 2 ()	<input checked="" type="radio"/> 3069 <input type="radio"/> 3070 <input type="radio"/> 3071 <input type="radio"/> 3072	
Week 3 ()	Yes, the answer is correct. Score: 1 Accepted Answers: 3069	
week 4 ()	3) The diameter of the circle is 10cm. What will be the perimeter of the shape(Use pi = 3.14)? 1 point	
Week 5 ()	<input checked="" type="radio"/> 31.4cm <input type="radio"/> 41.4cm <input type="radio"/> 51.4cm <input type="radio"/> 61.4cm	
Week 6 ()	Yes, the answer is correct. Score: 1 Accepted Answers: 31.4cm	
Week 7 ()		
Week 8 ()		
Week 9 ()		
Week 10 ()		
Week 11 ()		
Text Transcripts ()		
Download Videos ()	4) Choose the odd one out of the following 2, 3, 5, and 6. 1 point	
Books ()	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 5 <input checked="" type="radio"/> 6	
Problem Solving Session - July 2024 ()		

Yes, the answer is correct.

Score: 1

Accepted Answers:

6

5) Which of the following is an Armstrong number?

(Armstrong number is a number that is equal to the sum of cubes of its digits.)

1 point

123

333

407

663

Yes, the answer is correct.

Score: 1

Accepted Answers:

407

6) The sum of the first ten natural numbers is?

1 point

45

54

55

60

Yes, the answer is correct.

Score: 1

Accepted Answers:

55

7) A couple of dice is rolled together. What is the probability of getting the same number on both dice?

1 point

1/6

1/36

1/3



1

Yes, the answer is correct.

Score: 1

Accepted Answers:

1/6

8) If the perimeter of a circle is equal to that of a square, then the ratio of their areas is

1 point

 22: 7 14: 11 7: 22 11: 14

Yes, the answer is correct.

Score: 1

Accepted Answers:

14: 11

9) What is the Least Common Multiple of 4 & 8?

1 point

 2 8 12 16

Yes, the answer is correct.

Score: 1

Accepted Answers:

8

10) The area of circle A is equal to the sum of the area of two small circles with diameters of 6cm and 8cm. Then the diameter of circle A will be?

1 point

 5 10



15 20

Yes, the answer is correct.

Score: 1

Accepted Answers:

10

Check Answers and Submit

Your score is: 10/10



X



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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Introduction to Programming (unit?)

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2024-08-07, 23:59 IST.

Assignment submitted on 2024-08-07, 11:57 IST

- 1) The cat wants to move 100 steps away slowly, and by the time it finishes moving 100 steps, it needs to slowly rotate as well towards the opposite direction. Can both these tasks be accomplished by using single loop in scratch? **1 point**

Yes

No

Yes, the answer is correct.



unit=17&lesson=18)

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

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

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

Where to start? (unit?
unit=17&lesson=22)

Why do we have so many
languages? (unit?
unit=17&lesson=23)

How to go about
programming? (unit?
unit=17&lesson=24)

Why to learn
programming? (unit?
unit=17&lesson=25)

What is programming?
(unit?unit=17&lesson=26)

How to give instructions?
(unit?unit=17&lesson=27)

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

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

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

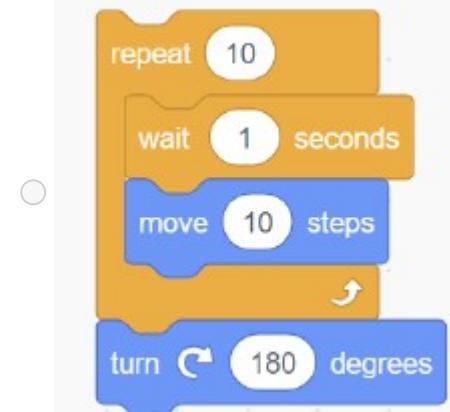
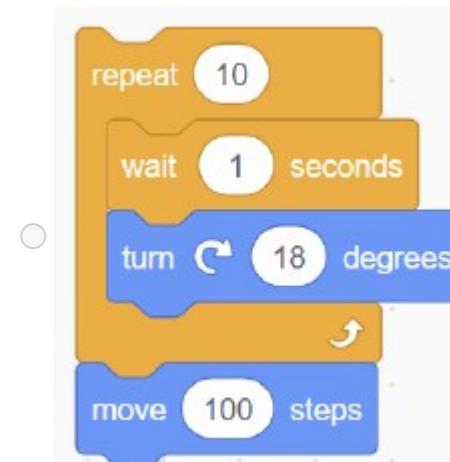
Score: 1

Accepted Answers:

Yes

2) Which block moves the cat as described in the previous question ?

1 point



- Solution to Looping Problem (unit?
unit=17&lesson=31)
- Scratch : Animation 1
(unit?unit=17&lesson=32)
- Scratch : Animation 2
(unit?unit=17&lesson=33)
- Scratch : Animation 3
(unit?unit=17&lesson=34)
- More on Scratch (unit?
unit=17&lesson=35)

Quiz: Week 1 :
Assignment 1
(assessment?
name=443)

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

Week 2 ()

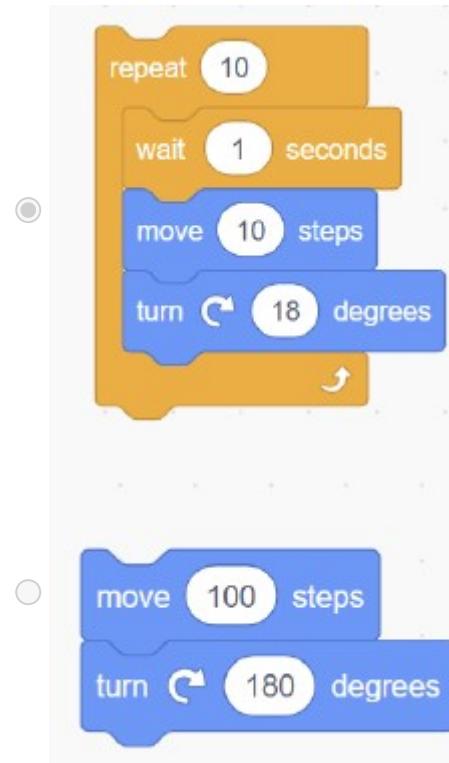
Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()



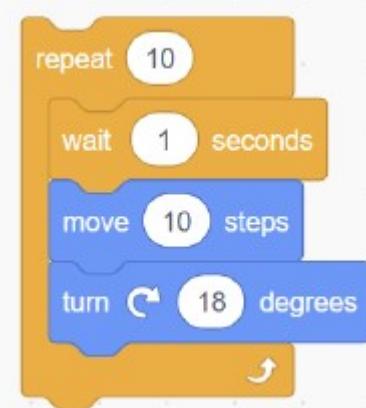
Yes, the answer is correct.



[Week 8 \(\)](#)[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Text Transcripts \(\)](#)[Download Videos \(\)](#)[Books \(\)](#)[Problem Solving](#)[Session - July 2024 \(\)](#)

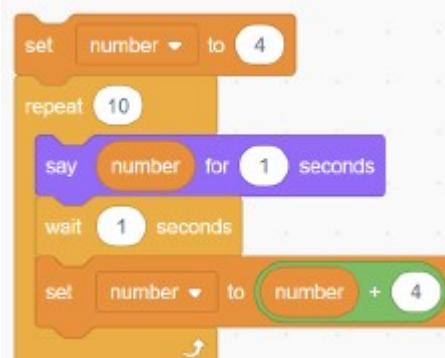
Score: 1

Accepted Answers:



3) What does the cat say here ?

1 point



- Says the number 4, for 1 second, 10 times and changes the value of number variable by multiplying previous value with 4.
- Says the number 4, for 1 second, 10 times and changes the value of number variable by adding previous value with 4.
- Says the number 4, and its multiples each for 1 second, till 40 and changes the value of number variable by multiplying previous value with 4.
- Says the number 4, and its multiples each for 1 second, till 40 and changes the value of number variable by adding previous value with 4.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Says the number 4, and its multiples each for 1 second, till 40 and changes the value of number variable by adding previous value with 4.

- 4) From the previous question, what is the value of number variable after the loop ends ?

1 point

- 40
- 44
- 36
- 4

Yes, the answer is correct.

Score: 1

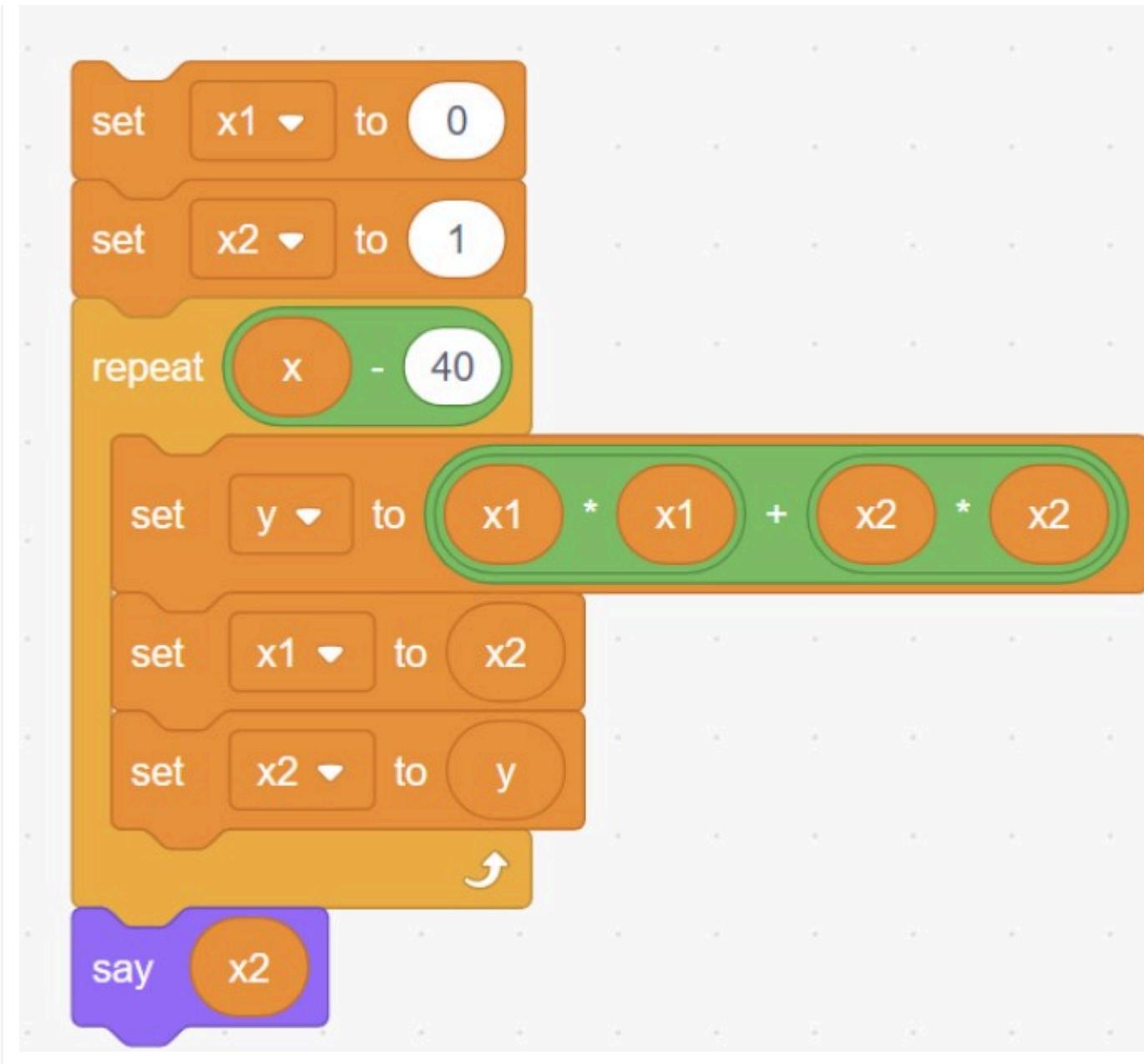
Accepted Answers:

44

- 5) Let answer for previous question be stored in variable x, what does the cat say after the execution of the loop ?

1 point





- 16
- 5
- 29
- 44

Yes, the answer is correct.

Score: 1

Accepted Answers:

29

6) Which of the following is use case of variables in programming.

1 point

- They are used to make the computer store program data into SSD.
- They help in storing and retrieval of information/data while a task on the machine is running.
- They simplify a task which involves processing repetitive procedures. They simplify a task which involves processing repetitive procedures.
- They help in running multiple tasks parallel to each other.

Yes, the answer is correct.

Score: 1

Accepted Answers:

They help in storing and retrieval of information/data while a task on the machine is running.

7) What is the concept that helps in instructing the computer to execute repetitive tasks ?

1 point

- Functions
- Variables
- Conditionals
- Loops

Yes, the answer is correct.

Score: 1

Accepted Answers:

Loops



8) Can polynomial expressions be instructed to computer in logically finite steps ?

1 point

- Yes
 No

Yes, the answer is correct.

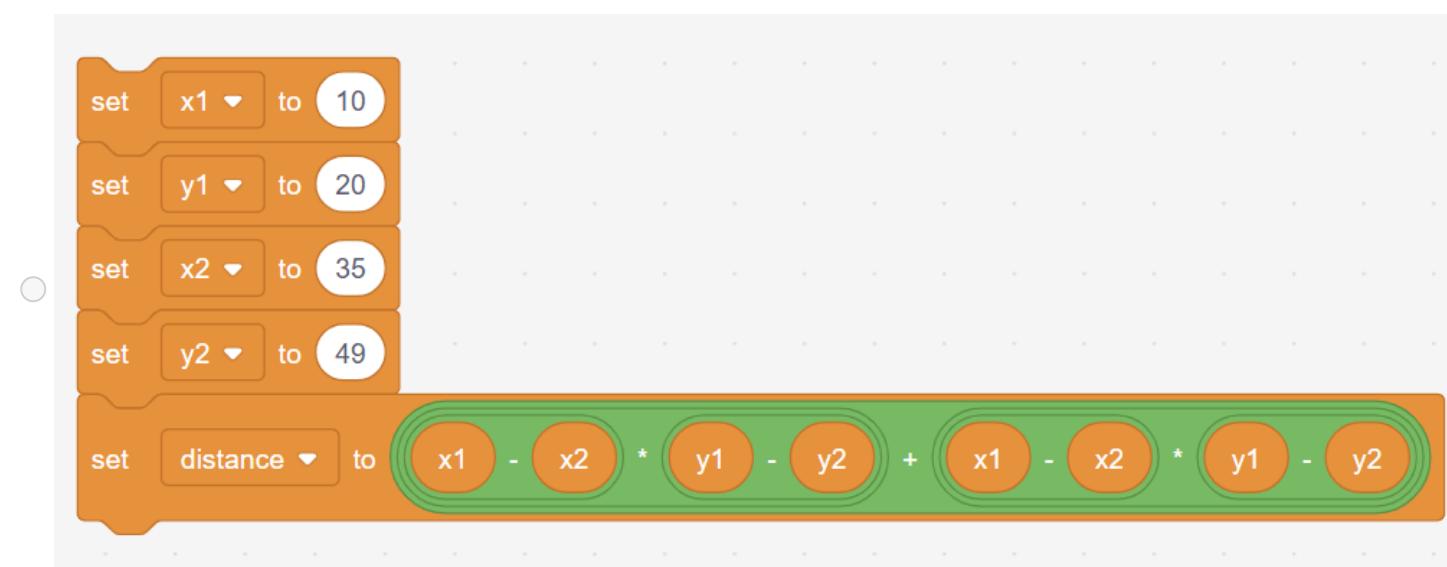
Score: 1

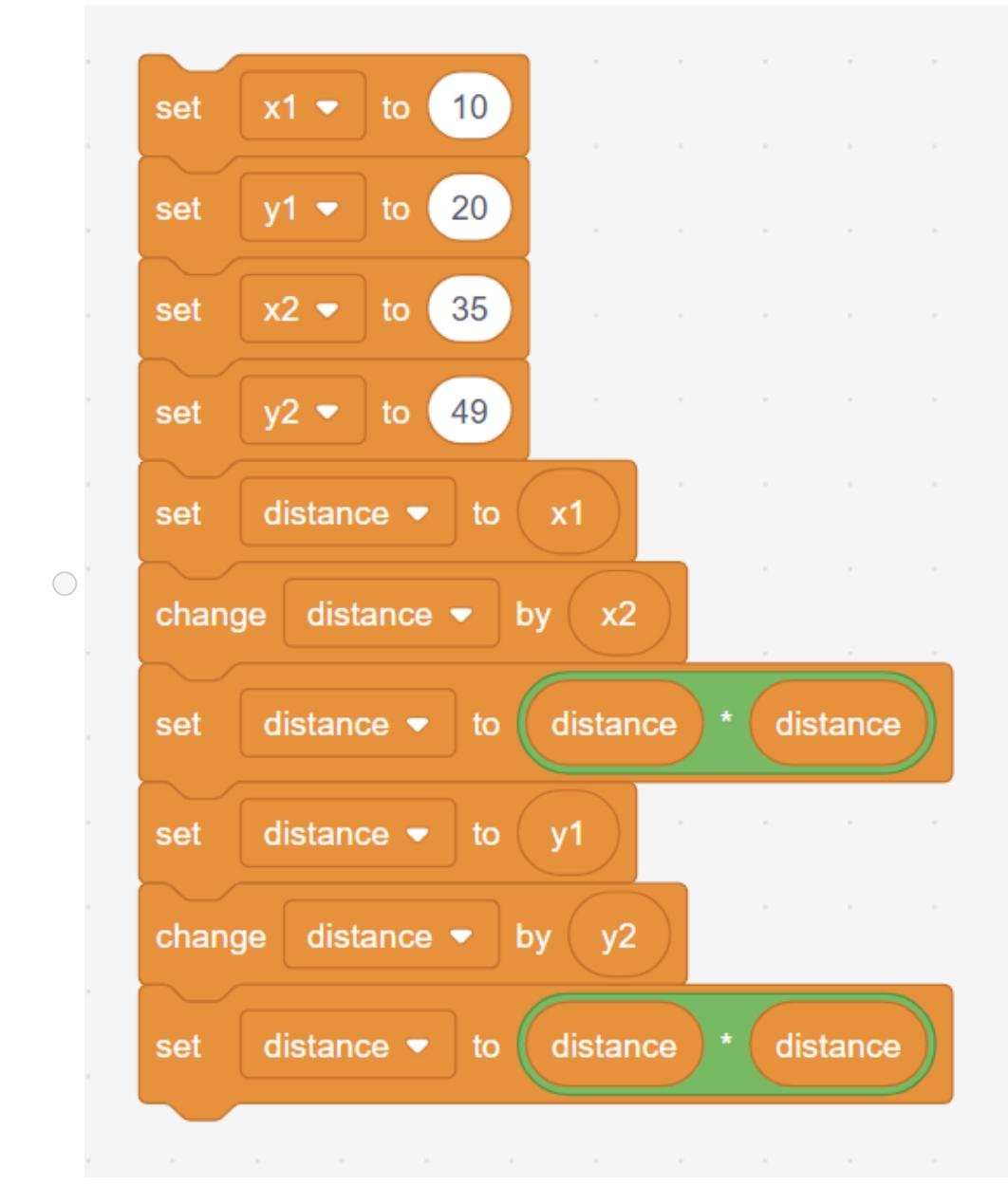
Accepted Answers:

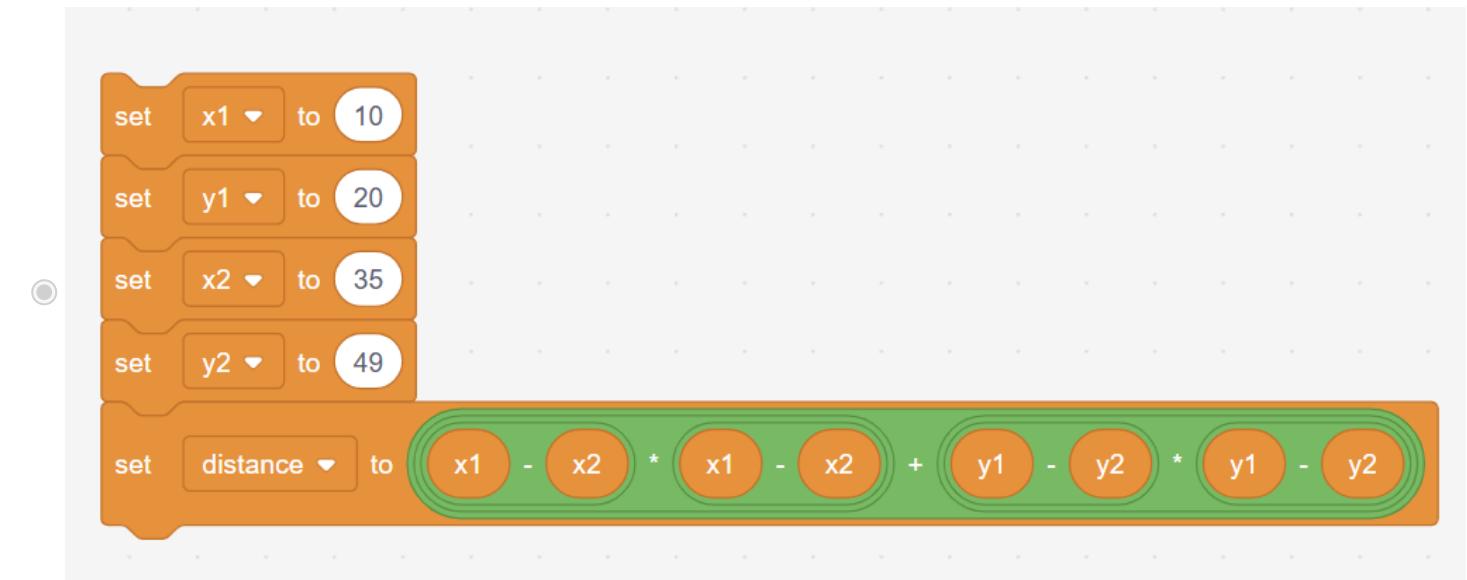
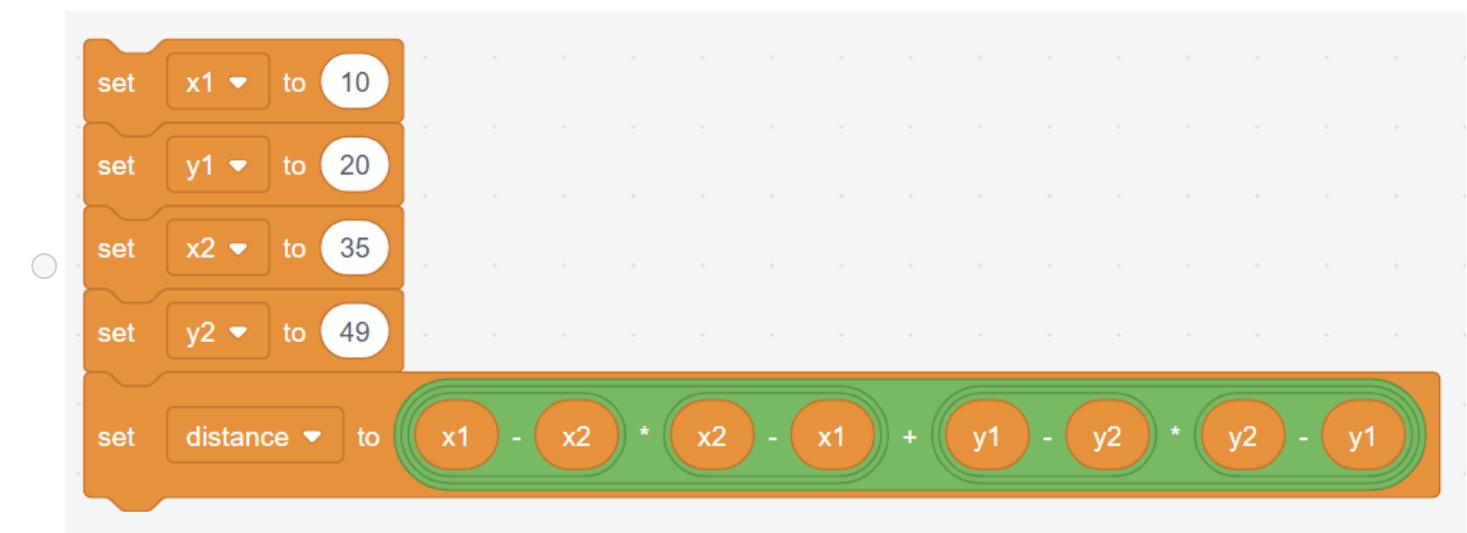
Yes

9) In which of the following code blocks **calculation** of the squared distance between two points (10, 20) and (35, 49) is accomplished.

1 point





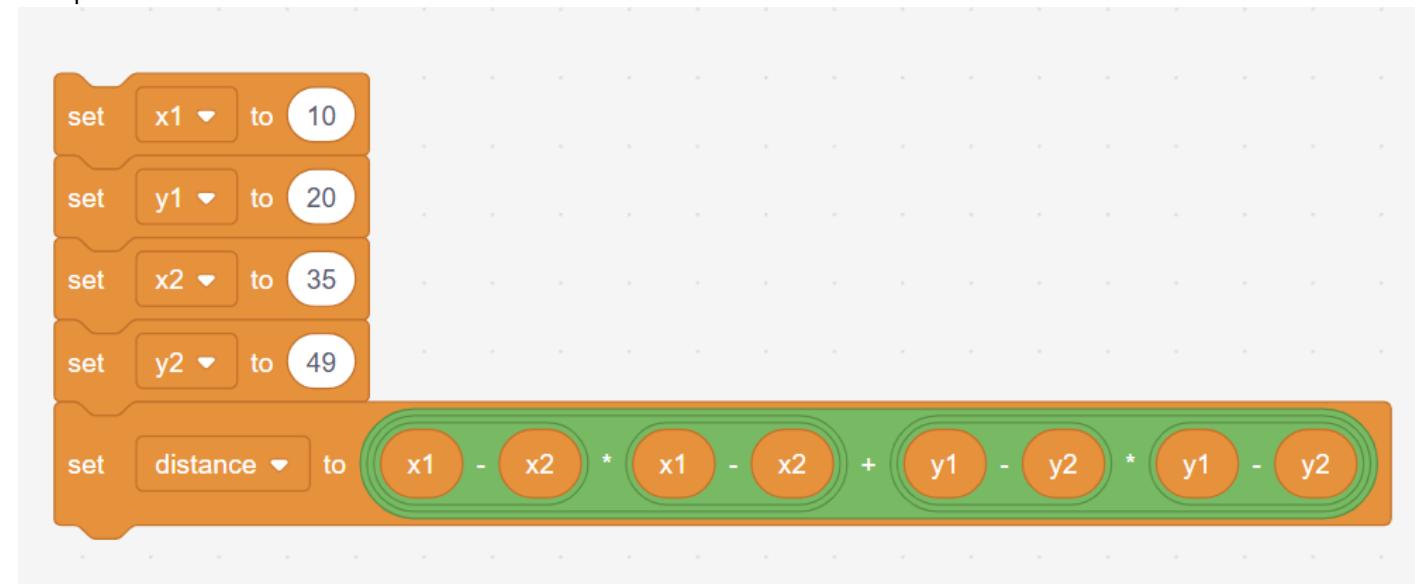


Yes, the answer is correct.



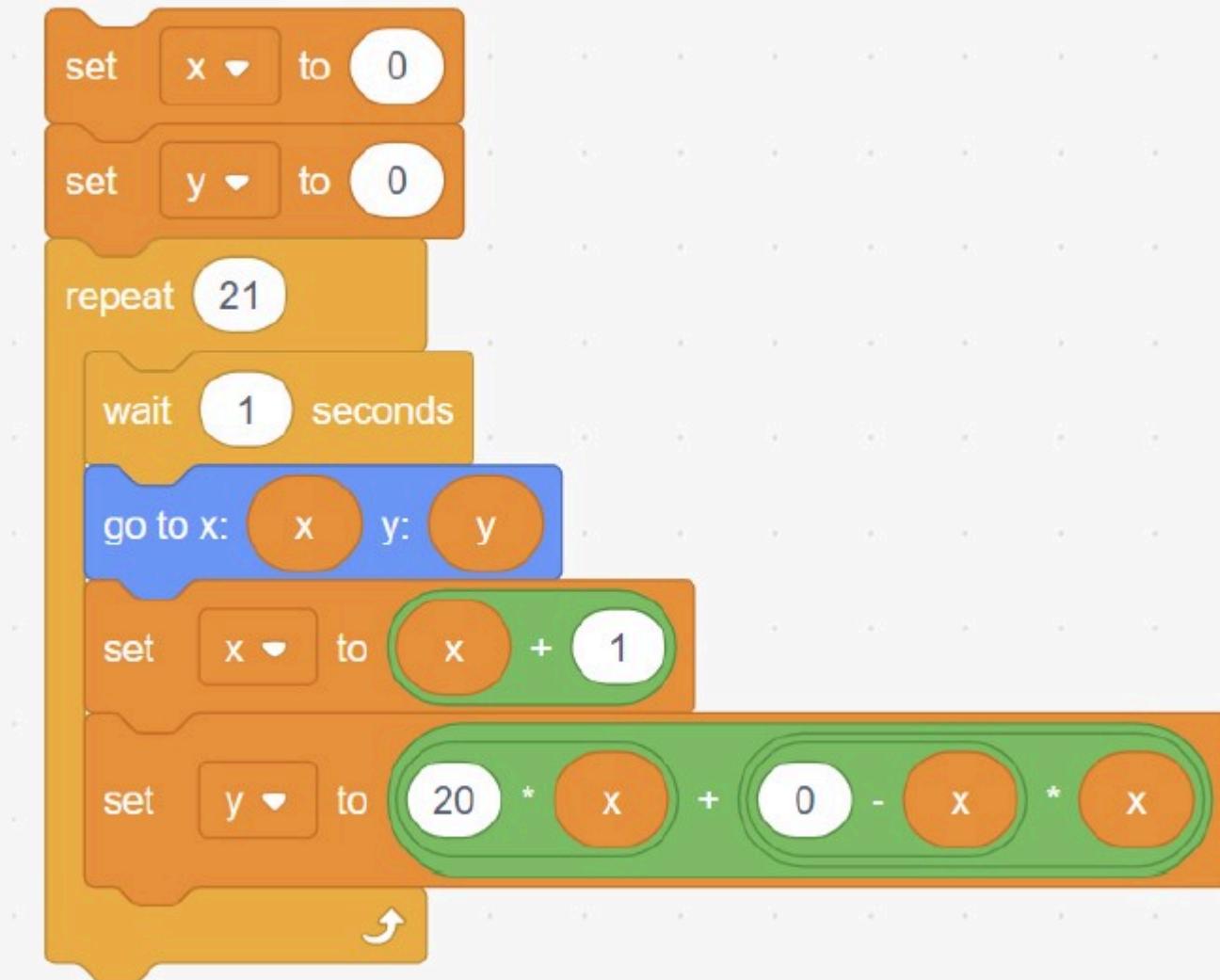
Score: 1

Accepted Answers:



1 point

10) What task does the block below accomplish ?



- Moves the ball in a parabolic path and stops 21 away steps from center(0, 0) in x direction.
- Moves the ball in a circular path and 21 times.
- Moves the ball in a triangular path and end at the center (0, 0).



- Moves the ball in a parabolic path and stops 20 away steps from center(0, 0) in x direction.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Moves the ball in a parabolic path and stops 20 away steps from center(0, 0) in x direction.



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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 2: Assignment 2

The due date for submitting this assignment has passed.

Due on 2024-08-07, 23:59 IST.

Assignment submitted on 2024-08-07, 12:07 IST

1) **Statement :** If a variable is assigned multiple times, the latest value is not stored in the variable 1 point

- False, the variable stores all values it was assigned
- False, the variable stores the value from the latest assignment.
- True, the variable stores the value from the second-last assignment.
- True, the variable stores value from the initial assignment



- 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)
- 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)

Yes, the answer is correct.

Score: 1

Accepted Answers:

False, the variable stores the value from the latest assignment.

2) Which of the following code blocks print - "Hello Ram Lakshman and Hanuman !" ?

1 point

`name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello",name1,name2, "and",name3,"!")`

`name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello",name1,name1, "and",name3,"!")`

`print("Hello Ram Lakshman and Hanuman !")`

`name1 = "Ram"
name2 = "Lakshman"
name3 = "Hanuman"
print("Hello Ram", name1, "and",name3,"!")`

Yes, the answer is correct.



- Understanding if condition's working (unit? unit=37&lesson=49)
 - Realizing the importance of syntax and indentation (unit?unit=37&lesson=50)
 - Introductions to loops (unit?unit=37&lesson=51)
 - Loops: Sum of numbers (unit?unit=37&lesson=52)
 - Loops: Sum of numbers (continued) (unit? unit=37&lesson=53)
 - Loops: Multiplication Tables (unit? unit=37&lesson=54)
 - Introduction to While Loop (unit?unit=37&lesson=55)
- Quiz: Week 2:**
Assignment 2
(assessment?
name=444)
- Programming Assignment
1
(/noc24_cs113/progassignment?name=446)
- Programming Assignment
2
(/noc24_cs113/progassignment?name=448)

Score: 1

Accepted Answers:

```
name1 = "Ram"  
name2 = "Lakshman"  
name3 = "Hanuman"  
print("Hello",name1,name2, "and",name3,"!")
```

```
print("Hello Ram Lakshman and Hanuman !")
```

3) What aren't the correct ways to inform python that input is an integer ?

1 point

- in(input())
- float(input())
- int(input())
- a = input()
- a = int(a)

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
in(input())  
float(input())
```

4) The following program outputs 722 -

1 point

● Programming Assignment
3
(/noc24_cs113/progassignment?name=447)

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

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Text Transcripts ()

Download Videos ()

Books ()

```
a = 7
result = 1
for i in range(a):
    if(i > 0):
        result = result * i
print(result+2)
```

For what value of **a** does the code output 8 ?

- 2
- 1
- 4
- 6

Yes, the answer is correct.

Score: 1

Accepted Answers:

4

5) What does previous question calculate ? 1 point

- Calculates the factorial of **a**.
- Calculates the factorial of **a** and adds 2.
- Calculates the a multiples of **a** starting from 1 and adds 2.
- Calculates the factorial of **a-1** and adds 2.

Yes, the answer is correct.



Problem Solving
Session - July 2024 ()

Score: 1

Accepted Answers:

Calculates the factorial of a-1 and adds 2.

6) Which loop is used to perform a set of repetitive tasks based on condition in Python?

1 point

- while** loop
- for** loop
- do-while** loop
- while-range** loop

Yes, the answer is correct.

Score: 1

Accepted Answers:

while loop7) What happens when the condition inside the **if** and **while** evaluate to false ?**1 point**

- Python interpreter ignores the **if/while** blocks, and halts the program.
- Python interpreter ignores the **if/while** blocks, and proceeds the program from the lines after the **if/while** block.
- Python interpreter executes the **if/while** blocks, and rest of the program.
- Python interpreter executes the **if/while**, and the programs runs in an infinite loop.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Python interpreter ignores the **if/while** blocks, and proceeds the program from the lines after the **if/while** block.*

8) The following program might/might not have an infinite loop. Does the program have infinite loop ?

1 point

```
1  a = int(input())
2  while(a == 0):
3      if(a<0):
4          a=-1
5      if(a>0):
6          a=1
7      if(a>1):
8          a=2
9      if(a<1):
10         a=-2
11  print(a)
```

- No, the program doesn't have infinite loop.
- Yes, it can be prevented by updating the value of **a** before the **if** block at line 3
- Yes, it can be prevented by removing both the **if** blocks inside the **while** loop.
- Yes, but it cannot be prevented

Yes, the answer is correct.



Score: 1

Accepted Answers:

Yes, it can be prevented by updating the value of a before the if block at line 3

- 9) For which of the following values of **name** and **age** variables does the following code print "You are lucky"?

1 point

```
name = input("Enter your name: ")
age = int(input("Enter your age: "))
flag = "False"
if(age >= 18):
    flag = "True"
else:
    flag = "False"
counter = 0
for i in name:
    if(i == "a"):
        counter += 1
if(flag == "True"):
    if(counter > 2):
        print("You are lucky")
    else:
        print("You are not lucky")
```

aryan, 20

arjun, 19



aakash, 17

aatreya, 18

Yes, the answer is correct.

Score: 1

Accepted Answers:

aatreya, 18

10) For which of the options among the previous question, the program doesn't print anything. **1 point**

aryan, 20

arjun, 19

aakash, 17

aatreya, 18

Yes, the answer is correct.

Score: 1

Accepted Answers:

aakash, 17



X



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Week 0 ()

Week 1 ()

Week 2 ()

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2024-08-14, 23:59 IST.

Assignment submitted on 2024-08-07, 12:12 IST

1) Which of the following is/are true statement(s)? 1 point

- Lists are used to store multiple values.
- One can access element in list by using non-numeric indices.
- Iterating over lists is possible in Python.
- We need to specify required size of list while creating a new list variable.

Week 3 ()

- Lists Part 1 : Introduction (unit?unit=57&lesson=58)
- Lists Part 2 : Manipulation (unit?unit=57&lesson=59)
- Lists Part 3 : Operations (unit?unit=57&lesson=60)
- Lists Part 4 : Slicing (unit?unit=57&lesson=61)
- Loops and Conditionals : Fizzbuzz 01 (unit?unit=57&lesson=62)
- Loops and Conditionals : Fizzbuzz 02 (unit?unit=57&lesson=63)
- Crowd Computing - Just estimate 01 (unit?unit=57&lesson=64)
- Crowd Computing - Just estimate 02 (unit?unit=57&lesson=65)
- Crowd Computing - Just estimate 03 (unit?unit=57&lesson=66)
- Crowd Computing - Just estimate 04 (unit?unit=57&lesson=67)
- Crowd Computing - Just estimate 05 (unit?unit=57&lesson=68)

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Lists are used to store multiple values.
Iterating over lists is possible in Python.*

2) In the below code -

```
n= ?
a = []
for i in range(n):
    l1 = []
    p = 0
    for j in range(i):
        l1.append(j)
    for k in l1:
        p+=1
    a.append(p)
k=0
for l in a:
    k+=l
print(k)
```

For what value of n does the program print 21 ?

unit=57&lesson=68)

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

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

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

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

Theory of Evolution 01
(unit?unit=57&lesson=73)

Theory of Evolution 02
(unit?unit=57&lesson=74)

Theory of Evolution 03
(unit?unit=57&lesson=75)

Theory of Evolution 04
(unit?unit=57&lesson=76)

Quiz: Week 3:
Assignment 3
(assessment?
name=453)

Week 3 Feedback Form:
The Joy of Computing
using Python (unit?
unit=57&lesson=77)

7

Yes, the answer is correct.

Score: 1

Accepted Answers:
(Type: Numeric) 7

1 point

3) From the previous question, for what values of n is the number 7 appended to list a.

7

6

8

9

Yes, the answer is correct.

Score: 1

Accepted Answers:

8

9

1 point

4) What does the following code perform ?

```
def mystery(container):
    result = []
    for i in range(len(container)):
        if i % 2 == 0:
            result.append(container[i] * 2)
        else:
            result.append(container[i] + 3)
    return result
```

Week 3: Programming Assignment 1 (/noc24_cs113/progassignment?name=456)

Week 3: Programming Assignment 2 (/noc24_cs113/progassignment?name=457)

Week 3: Programming Assignment 3 (/noc24_cs113/progassignment?name=458)

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Text Transcripts ()

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- It converts any input list into a new list which is filled with some alternative even and odd numbers.
- It converts any input list into a new list such that at even indices, the value is a multiple of an even number and at odd indices, the value is either odd or even number.
- It converts any input list into a new list such that at even indices, the value is multiple of 2 and at odd indices, the value is multiple of 3.
- It converts any input list into a new list, which follows no pattern.

Yes, the answer is correct.

Score: 1

Accepted Answers:

It converts any input list into a new list such that at even indices, the value is a multiple of an even number and at odd indices, the value is either odd or even number.

5) From the previous question, if the option -

1 point

It converts any input list into a new list which is filled with some alternative even and odd numbers.

is incorrect, Can you make changes to code such that this option is true ?

- No, it is not possible to make such changes.
- No, the option is already correct.
- Yes, we can make changes.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes, we can make changes.

6) If **file.txt** exists, Does the code successfully run ?

1 point

```
with open("file.txt", "w") as f:
    data = f.read()
    print(data)
```

- Yes
- No

Books ()**Problem Solving
Session - July 2024 ()**

Yes, the answer is correct.

Score: 1

Accepted Answers:

No

7) Which of the following are examples of Social Computing ?

1 point

- StackOverflow
- Wikipedia
- Quora
- None

Yes, the answer is correct.

Score: 1

Accepted Answers:

*StackOverflow**Wikipedia**Quora*8) What does the following code print for **n = 3?****1 point**

```
n = ?
k = 0
a = []
b = 0
while (n != 0):
    k = k + (n % 10)
    a.append(n % 10)
    n = n//10
a.sort()
for i in a:
    b = b + i
if(b == k):
    print("WE KNOW THE WISDOM OF SERIES")
else:
    print("WE ARE YET TO KNOW MANY THINGS")
```

- WE KNOW THE WISDOM OF SERIES
 WE ARE YET TO KNOW MANY THINGS

Yes, the answer is correct.

Score: 1

Accepted Answers:

WE KNOW THE WISDOM OF SERIES

9) From the previous question, is the variable **n** or **a.sort()** responsible for printing of either of the two possible sentences ?

1 point

- No, it is not dependent on variable n, the code will never print "WE ARE YET TO KNOW MANY THINGS".
 Yes on a.sort() only, but the code will never print "WE ARE YET TO KNOW MANY THINGS".
 Yes on both, the code may print both sentences.
 No, it is not dependent on a.sort(), the code will never print "WE ARE YET TO KNOW MANY THINGS".

Yes, the answer is correct.

Score: 1

Accepted Answers:

No, it is not dependent on variable n, the code will never print "WE ARE YET TO KNOW MANY THINGS".

No, it is not dependent on a.sort(), the code will never print "WE ARE YET TO KNOW MANY THINGS".

10) What does the code in question 8, calculate ?

Can you say what the values of k and b are if $n = 10294343763482 \times 10^{2309}$.

If values of k and b are different, enter 0, else enter value of k

56

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 56

1 point

X



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Week 1 ()

Week 2 ()

Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2024-08-21, 23:59 IST.

Assignment submitted on 2024-08-21, 18:01 IST

- 1) Which of the following options provides the general formula for the magic constant of a magic square of size n , where all elements are distinct numbers from 1 to n^2 ?

1 point

$$\frac{n(n^2 + 1)}{2}$$



Week 3 ()**week 4 ()**

Practice is the key (unit?
unit=78&lesson=79)

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

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

Magic Square: Hit and
Trial 03 (unit?
unit=78&lesson=82)

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

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

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

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

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

Dobble Game - Spot the
similarity 03 (unit?)

$$\frac{n^3}{2}$$
$$\frac{n^3 + 2}{2}$$
$$\frac{n^4 + n^2}{2n}$$

Yes, the answer is correct.
Score: 1

Accepted Answers:

$$\frac{n(n^2 + 1)}{2}$$

$$\frac{n^4 + n^2}{2n}$$

2) What would the magic constant be for a magic square of size 6, given that all elements in the square are distinct numbers from 1 **1 point** to 36?

- 72
 111
 109
 110

Yes, the answer is correct.
Score: 1

Accepted Answers:

111

3) Does transposing the magic square give us a new magic square ? **1 point**

- Yes
 No

Yes, the answer is correct.



unit=78&lesson=88)

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

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

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

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

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

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

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

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

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

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

Score: 1

Accepted Answers:

Yes

4) Which of the following are valid magic squares ?

1 point

$$\begin{bmatrix} 10 & 3 & 13 & 8 \\ 5 & 16 & 2 & 11 \\ 4 & 9 & 7 & 14 \\ 15 & 6 & 12 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 20-e & 6-e & 26-e & 16-e \\ 10-e & 32-e & 4-e & 22-e \\ 8-e & 18-e & 14-e & 28-e \\ 30-e & 12-e & 24-e & 2-e \end{bmatrix}$$

$$\begin{bmatrix} 1 & 14 & 4 & 15 \\ 8 & 11 & 5 & 10 \\ 13 & 2 & 16 & 3 \\ 12 & 7 & 9 & 6 \end{bmatrix}$$

$$\begin{bmatrix} \pi & 14\pi & 4\pi & 15\pi \\ 8\pi & 11\pi & 5\pi & 10\pi \\ 13\pi & 2\pi & 16\pi & 3\pi \\ 12\pi & 7\pi & 9\pi & 6\pi \end{bmatrix}$$

Yes, the answer is correct.

Score: 1

Accepted Answers:

$$\begin{bmatrix} 10 & 3 & 13 & 8 \\ 5 & 16 & 2 & 11 \\ 4 & 9 & 7 & 14 \\ 15 & 6 & 12 & 1 \end{bmatrix}$$



- Guess the Movie Name 03 (unit? unit=78&lesson=99)
- Guess the Movie Name 04 (unit? unit=78&lesson=100)
- Guess the Movie Name 05 (unit? unit=78&lesson=101)
- Guess the Movie Name 06 (unit? unit=78&lesson=102)

Quiz: Week 4:
Assignment 4
(assessment?
name=454)

- Week 4: Programming Assignment 1 (/noc24_cs113/progassignment?name=459)
- Week 4: Programming Assignment 2 (/noc24_cs113/progassignment?name=461)

- Week 4: Programming Assignment 3 (/noc24_cs113/progassignment?name=460)

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

$$\begin{bmatrix} 20-e & 6-e & 26-e & 16-e \\ 10-e & 32-e & 4-e & 22-e \\ 8-e & 18-e & 14-e & 28-e \\ 30-e & 12-e & 24-e & 2-e \\ 1 & 14 & 4 & 15 \\ 8 & 11 & 5 & 10 \\ 13 & 2 & 16 & 3 \\ 12 & 7 & 9 & 6 \\ \pi & 14\pi & 4\pi & 15\pi \\ 8\pi & 11\pi & 5\pi & 10\pi \\ 13\pi & 2\pi & 16\pi & 3\pi \\ 12\pi & 7\pi & 9\pi & 6\pi \end{bmatrix}$$

- 5) What is the minimum number of people required to ensure that at least two of them share the same 30-minute birth interval? The intervals start from 12:00 AM and each interval lasts for half an hour.

49

Yes, the answer is correct.
Score: 1

Accepted Answers:
(Type: Numeric) 49

1 point

- 6) Calculate the magic constant for 4x4 square, where all elements are distinct numbers from 1 to 16, is it same as the magic constant for Ramanujan's magic square ?

If yes, enter 0, else enter the absolute difference between the two.
Hint: Search about Ramanujan's magic square.

105

Yes, the answer is correct.



Score: 1

Accepted Answers:

(Type: Numeric) 105

[Week 5 \(\)](#)

[Week 6 \(\)](#)

[Week 7 \(\)](#)

[Week 8 \(\)](#)

[Week 9 \(\)](#)

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Problem Solving
Session - July 2024 ()

7) What task does function1() perform ?

1 point

1 point

```
def function1(number):
    list1 = []
    for i in range(1, number):
        if number % i == 0:
            list1.append(i)
    return list1

def function2(n1, n2):
    flag = False
    list2 = []
    for i in function1(n1):
        for j in function1(n2):
            if i == j:
                flag = True
                list2.append(i)
    if len(list2) > 0:
        print("Completed")
```

- Calculate factorial of number n.
- Calculate factors of number n.
- Calculate prime factors of number n.
- Calculate factors of number n excluding n.



Yes, the answer is correct.

Score: 1

Accepted Answers:

Calculate factors of number n excluding n.

8) For what **n1,n2** flag will the variable **flag** inside **function2()** be not equal to true ?

1 point

- 2,3
- 0,0
- 1,1
- 1,0

Yes, the answer is correct.

Score: 1

Accepted Answers:

0,0

1,1

1,0

9) If all possible pairs of prime numbers between 0 and 20, are given to n1 and n2, for how many pairs would function2 print "Completed" ?

1 point

- It will not print "Completed" for any pair.
- It will print "Completed" only for pairs (2,3)(3,5),(2,5), and for the remaining it would not print "Completed".
- It will print "Completed" only for pair (2,3), and for the remaining other pairs of primes it would not print "Completed".
- It will print "Completed" for all pairs of primes between 0 and 20.

Yes, the answer is correct.

Score: 1

Accepted Answers:

It will print "Completed" for all pairs of primes between 0 and 20.

10) If numbers of pairs of primes which result in function2 to print "Completed" are greater than 0, Can we edit the code in **function2()** so that "Completed" is never printed for any pair of primes ?

1 point

- Yes, we can change the logic for setting **flag** variable to True.

- Yes, we can change/increase the threshold for length of `list2` in the last `if` block.
- No, it is logically not possible.
- Yes, we can change the initial value of flag to True, instead of False.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes, we can change/increase the threshold for length of list2 in the last if block.



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Week 1 ()

Week 2 ()

Week 5: Assignment 5

The due date for submitting this assignment has passed.

Due on 2024-08-28, 23:59 IST.

Assignment submitted on 2024-08-27, 15:36 IST

1) Which of the following is the correct way to add data with key as **CS101** and value as "**Web Programming**" to a dictionary named **courseData**? 1 point

- `courseData["CS101"].append("Web Programming")`
- `courseData["CS101"]["Web Programming"]`

Week 3 ()**week 4 ()****Week 5 ()**

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

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

Speech to Text : No need to write 02 (unit?
unit=104&lesson=107)

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

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

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

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

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

courseData["CS101"] = "Web Programming";

courseData["CS101"] = "Web Programming"

Yes, the answer is correct.

Score: 1

Accepted Answers:

courseData["CS101"] = "Web Programming"

2) What is the probability of Monty opening the door with goat, given the hypothesis that you initially chose the door which has car ? **1 point**

0.5

0.66

0.33

1

Yes, the answer is correct.

Score: 1

Accepted Answers:

1

3) What should be replaced with ? in line 10, so that there is high chance that **final_choice** is equal to 2 ?

1 point

- (unit?
unit=104&lesson=112)
- Rock, Paper and Scissor : Cheating not allowed !! 03
(unit?
unit=104&lesson=113)
- Rock, Paper and Scissor : Cheating not allowed !! 04
(unit?
unit=104&lesson=114)
- Sorting and Searching : 20 questions game 01
(unit?
unit=104&lesson=115)
- Sorting and Searching : 20 questions game 02
(unit?
unit=104&lesson=116)
- Sorting and Searching : 20 questions game 03
(unit?
unit=104&lesson=117)
- Sorting and Searching : 20 questions game 04
(unit?
unit=104&lesson=118)
- Sorting and Searching : 20 questions game 05
(unit?
unit=104&lesson=119)
- Sorting and Searching : 20 questions game 06

```

1 import random
2 initial_choice = random.randint(0, 2)
3 doors = ['goat', 'goat', 'car']
4
5 for i in range(3):
6     if i != initial_choice and doors[i] != 'car':
7         montyOpens = i
8         break
9
10 if ?:  
11     for i in range(3):
12         if i != initial_choice and i != montyOpens:
13             final_choice = i
14             break
15 else:
16     final_choice = initial_choice

```

- True
 $(2^{**}90) \% 2 == 0$
 $3*((3^{**}89) + 3) \% 3 == 0$
 $(2^{**}90) \% \text{len(doors)} == 1$

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

*$(2^{**}90) \% 2 == 0$*

$3((3^{**}89) + 3) \% 3 == 0$*

*$(2^{**}90) \% \text{len(doors)} == 1$*

- 4) Given that you have a sorted list of 1024 elements, what is the maximum number of comparisons required to find the target element using binary search ? Also what is the number of comparisons to search such an element using linear search ?

1 point

- Binary: 10, Linear: 512

(unit?
unit=104&lesson=120)

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

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

Quiz: Week 5:
Assignment 5
(assessment?
name=462)

Week 5: Programming
Assignment 1
(/noc24_cs113/progassignment?name=464)

Week 5: Programming
Assignment 2
(/noc24_cs113/progassignment?name=465)

Week 5: Programming
Assignment 3
(/noc24_cs113/progassignment?name=466)

Week 6 ()

Week 7 ()

Week 8 ()

- Binary: 11, Linear: 1024
- Binary: 10, Linear: 1024
- Binary: 11, Linear: 512

No, the answer is incorrect.
Score: 0
Accepted Answers:
Binary: 10, Linear: 1024

5) What type of data is contained in a file with a .wav or .wave extension? 1 point

- Log data
- Audio data
- Video data
- Image data

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

6) What does this program print in the end ? 1 point

[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Text Transcripts \(\)](#)[Download Videos \(\)](#)[Books \(\)](#)[Problem Solving
Session - July 2024 \(\)](#)

```
import random
n=10
counter = 0
for i in range(n):
    choices = ["rock", "paper", "scissors"]
    choice1 = random.choice(choices)
    choice2 = random.choice(choices)
    if choice1 == choice2:
        counter += 1
print(counter/n)
```

- Fraction of throws where both players showed different symbol(rock/paper/scissors)
- Fraction of throws where both players showed rock.
- Fraction of throws where both players showed same symbol(rock/paper/scissors)
- Fraction of throws where both players showed paper.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Fraction of throws where both players showed same symbol(rock/paper/scissors)

7) In binary search, what happens if the target value is greater than the middle element of the array? 1 point

- The search continues in the left half of the array.
- The search continues in the right half of the array.
- The search ends.
- The array is sorted again.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The search continues in the right half of the array.

8) Which of the following is a requirement for binary search to work correctly?

1 point

- The list must be sorted.
- The list must contain only positive numbers.
- The list must be of an even length.
- The list must contain unique elements.

No, the answer is incorrect.

Score: 0

Accepted Answers:

The list must be sorted.

9) Given an array [5, 3, 8, 4, 2], what will be the array after the third pass of Bubble Sort?

1 point

- [3, 2, 4, 8, 5]
- [3, 2, 4, 5, 8]
- [2, 3, 4, 5, 8]
- [3, 5, 2, 4, 8]

Yes, the answer is correct.

Score: 1

Accepted Answers:

[3, 2, 4, 5, 8]

10) How many swaps are performed in iteration 3 for bubble sorting list [4,3,2,1]? Enter 0 if the list is sorted in less than 3 iterations.

1

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 1

1 point

X



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Week 1 ()

Week 2 ()

Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2024-09-04, 23:59 IST.

Assignment submitted on 2024-09-02, 11:56 IST

- 1) If n is a positive integer, what is the output of the function given input n,

1 point

[Week 3 \(\)](#)[week 4 \(\)](#)[Week 5 \(\)](#)[Week 6 \(\)](#)

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

Substitution Cipher -The science of secrecy 01
(unit?
unit=124&lesson=126)

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

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

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

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

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

```
def mystery(n):
    if n <= 0:
        return 0
    else:
        return 1 + mystery(n - 1)
```

- Sum of numbers from 1 to n
- Sum of numbers from 1 to n-1
- n-1
- n

Yes, the answer is correct.

Score: 1

Accepted Answers:

n

2) Which of the following are true about recursion?

1 point

- Recursion is a process in which a function calls itself as a subroutine.
- Recursion is a better alternative for performing repetitive tasks compared to iteration.
- Recursion requires more resources compared to iteration.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Recursion is a process in which a function calls itself as a subroutine.

Recursion requires more resources compared to iteration.

3) What is the output of following code ?

1 point

- Tic Tac Toe - Down the memory Lane 03 (unit? unit=124&lesson=132)
- Tic Tac Toe - Down the memory Lane 04 (unit? unit=124&lesson=133)
- Tic Tac Toe - Down the memory Lane 05 (unit? unit=124&lesson=134)
- Recursion (unit? unit=124&lesson=135)
- Recursion 01 (unit? unit=124&lesson=136)
- Recursion 02 (unit? unit=124&lesson=137)
- Recursion 03 (unit? unit=124&lesson=138)
- Recursion 04 (unit? unit=124&lesson=139)
- Recursion 05 (unit? unit=124&lesson=140)
- Recursion 06 (unit? unit=124&lesson=141)

**Quiz: Week 6:
Assignment 6
(assessment?
name=467)**

**Week 6: Programming
Assignment 1**

```
def func(x):
    return x * 2

def func(x, y=3):
    return x + y

print(func(5))
```

- 10
- 8
- 5
- Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

8

4) The letter 'e' is the most frequently occurring letter in the English language. Suppose we apply a Substitution Cipher where 'e' is **1 point** mapped to 'a', and all other letters are uniquely mapped to different letters. If we encrypt a very long English storybook using this cipher, will the frequency of 'a' be the highest in the encrypted text?

Hint: Search the internet for more info, if needed

- Yes, it would be same as 'e' in the original text
- Yes, it would be higher than 'e' in the original text.
- No, it would be lower than 'e' in the original text.
- No, we cannot predict

(/noc24_cs113/progassignment?name=468)

● Week 6: Programming Assignment 2
(/noc24_cs113/progassignment?name=470)

● Week 6: Programming Assignment 3
(/noc24_cs113/progassignment?name=471)

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

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

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Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes, it would be same as 'e' in the original text

5) Could we check frequency of letters in a long ciphertext and map them to frequency of letters in English to decrypt the message? **1 point**

Hint: Search the internet for more info, if needed.

Yes, it is possible.

No, it is not possible.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes, it is possible.

6) What are drawbacks of using frequency analysis to decrypt a message that has been encrypted using Substitution Cipher? **1 point**

It will not work if the cipher text is too small.

It works flawlessly.

It will not work if the encrypted text was previously encrypted using a different cipher, which could have removed patterns in common English.

The frequency analysis method doesn't work at all for Substitution Cipher

Yes, the answer is correct.

Score: 1

Accepted Answers:

It will not work if the cipher text is too small.

It will not work if the encrypted text was previously encrypted using a different cipher, which could have removed patterns in common English.

7) If variable **dict_name** is a non-empty dictionary, what does **dict_name.keys()** return? **1 point**

Returns nothing, but prints all the keys in the dictionary.

Returns a list of all the keys in the dictionary.

- Returns a list of all the values in the dictionary.
- Returns a list of all the items in the dictionary

Yes, the answer is correct.

Score: 1

Accepted Answers:

Returns a list of all the keys in the dictionary.

8) Is Ceaser Cipher a type of Substitution Cipher? 1 point

- Yes
- No

Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes

9) What is the consequence of not having a base case in a recursive function? 1 point

- The function will run infinitely.
- The function will run only once.
- The function will not run at all.
- The function will run only for a fixed number of times.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The function will run infinitely.

10) What are the number of possible final lines when someone wins, in a game of TicTac-Toe? 1 point

- 3
- 8
- 9
- 4

Yes, the answer is correct.

Score: 1

Accepted Answers:

8

X



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Week 1 ()

Week 2 ()

Week 7: Assignment 7

The due date for submitting this assignment has passed.

Due on 2024-09-11, 23:59 IST.

Assignment submitted on 2024-09-04, 13:36 IST

1) Which of the following methods is used to read the content of a CSV file in Python using the csv module? **1 point**

- csv.reader()
- csv.write()
- csv.load()
- csv.readfile()



Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Snakes and Ladders - Not on the Board (unit?
unit=143&lesson=144)

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

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

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

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

Snakes and Ladders - Not on the Board - Part 05

Yes, the answer is correct.

Score: 1

Accepted Answers:

`csv.reader()`

2) Which command is used to install a Python package using pip? 1 point

- pip install package-name
- install pip package-name
- python install package-name
- pip package-name install

Yes, the answer is correct.

Score: 1

Accepted Answers:

`pip install package-name`

3) What is the primary purpose of the gmplot library in Python? 1 point

- To create 3D plots
- To plot data on Google Maps
- To generate matplotlib graphs
- To create dashboards

Yes, the answer is correct.

Score: 1

Accepted Answers:

`To plot data on Google Maps`

4) In a game of Snakes and Ladders, a player is currently on square 96. There is a snake on square 99 that sends the player back to square 78. If the player wishes to reach square 100 in one dice throw, what number must they roll on the dice?

4

Yes, the answer is correct.



- (unit?
unit=143&lesson=149)
- Snakes and Ladders - Not on the Board - Part 06
(unit?
unit=143&lesson=150)
- Spiral Traversing - Let's Animate (unit?
unit=143&lesson=151)
- Spiral Traversing - Let's Animate - Part 01 (unit?
unit=143&lesson=152)
- Spiral Traversing - Let's Animate - Part 02 (unit?
unit=143&lesson=153)
- Spiral Traversing - Let's Animate - Part 03 (unit?
unit=143&lesson=154)
- Spiral Traversing - Let's Animate - Part 04 (unit?
unit=143&lesson=155)
- Spiral Traversing - Let's Animate - Part 05 (unit?
unit=143&lesson=156)
- Spiral Traversing - Let's Animate - Part 06 (unit?
unit=143&lesson=157)
- Spiral Traversing - Let's Animate - Part 07 (unit?
unit=143&lesson=158)

Score: 1
Accepted Answers:
(Type: Numeric) 4

1 point

5) In the same scenario, where the player is on square 96 and needs to roll a 4 to reach square 100, what is the probability of rolling **1 point** this number on a fair six-sided die?

- 1/2
- 1/3
- 1/4
- 1/6

Yes, the answer is correct.

Score: 1
Accepted Answers:
1/6

1 point

6) Which of the following commands will draw a square using Python's turtle module?

Turtle is imported in the following way-

```
import turtle as t  
turtle = t.Turtle()
```

- for i in range(4):
 turtle.forward(100)
 turtle.left(90)
- for i in range(4):
 turtle.forward(100)
 turtle.right(90)
- for i in range(4):
 turtle.backward(100)
 turtle.left(90)



GPS - Track the route
(unit?
unit=143&lesson=159)

GPS - Track the route -
Part 01 (unit?
unit=143&lesson=160)

GPS - Track the route -
Part 02 (unit?
unit=143&lesson=161)

GPS - Track the route -
Part 03 (unit?
unit=143&lesson=162)

GPS - Track the route -
Part 04 (unit?
unit=143&lesson=163)

Quiz: Week 7:
Assignment 7
(assessment?
name=472)

Week 7: Programming
Assignment 1
(/noc24_cs113/progassignment?name=473)

Week 7: Programming
Assignment 2
(/noc24_cs113/progassignment?name=474)

Week 7: Programming
Assignment 3
(/noc24_cs113/progassignment?name=475)

for i in range(4):
 turtle.backward(100)
 turtle.right(90)

Yes, the answer is correct.
Score: 1

Accepted Answers:

for i in range(4):
 turtle.forward(100)
 turtle.left(90)
for i in range(4):
 turtle.backward(100)
 turtle.left(90)
for i in range(4):
 turtle.backward(100)
 turtle.right(90)

7) Does the turtle module in Python allow you to draw complex shapes on the screen? 1 point

- Yes
 No

Yes, the answer is correct.
Score: 1

Accepted Answers:

Yes

8) What is the purpose of the `turtle.penup()` and `turtle.pendown()` commands in Python's turtle module? 1 point

- To stop the turtle from drawing and then resume drawing at a new position
 To change the color of the turtle's pen
 To speed up or slow down the drawing speed of the turtle



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

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Text Transcripts ()

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Session - July 2024 ()

Yes, the answer is correct.

Score: 1

Accepted Answers:

To stop the turtle from drawing and then resume drawing at a new position

9) What is the default drawing state of the turtle when a new turtle object is created in Python's turtle module?

1 point

- The turtle's pen is up, so it does not draw while moving.
- The turtle's pen is down, so it draws while moving.
- The turtle is hidden, so it does not appear on the screen.
- The turtle starts with a circular shape.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The turtle's pen is down, so it draws while moving.

10) Which of the following commands is used to open an image file using Python's PIL (Pillow) library?

1 point

- img = PIL.Image.open('image.jpg')
- img = Image.open('image.jpg')
- img = open_image('image.jpg')
- img = PIL.open_image('image.jpg')

Yes, the answer is correct.

Score: 1

Accepted Answers:

img = Image.open('image.jpg')



X



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Week 0 ()

Week 1 ()

Week 2 ()

Week 8: Assignment 8

The due date for submitting this assignment has passed.

Due on 2024-09-18, 23:59 IST.

Assignment submitted on 2024-09-16, 16:10 IST

1) Which of the following is a valid way to create a tuple in Python?

1 point

- t = [1, 2, 3]
- t = (1, 2, 3)
- t = {1, 2, 3}
- t = 1, 2, 3

Week 3 ()	Yes, the answer is correct. Score: 1 Accepted Answers: $t = (1, 2, 3)$ $t = 1, 2, 3$	
week 4 ()		
Week 5 ()	2) Which of the following operations is valid on a tuple? 1 point	
Week 6 ()	<input type="radio"/> $t[1] = 4$ <input type="radio"/> $t.append(4)$ <input checked="" type="radio"/> $t = t + (4,)$ <input type="radio"/> $del t[1]$	
Week 7 ()	Yes, the answer is correct. Score: 1 Accepted Answers: $t = t + (4,)$	
Week 8 ()	3) What will the following code output? 1 point	
<input type="radio"/> Tuples- Python Data Structure (unit? unit=165&lesson=166)	$t = [1, 2, 3]$ <code>print(type((t,t)))</code>	
<input type="radio"/> Lottery Simulation - Profit or Loss (unit? unit=165&lesson=167)	<input type="radio"/> < class 'list' > <input type="radio"/> < class 'set' > <input checked="" type="radio"/> < class 'tuple' > <input type="radio"/> Error	
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 01 (unit? unit=165&lesson=168)	Yes, the answer is correct. Score: 1 Accepted Answers: $< class 'tuple' >$	
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 02 (unit? unit=165&lesson=169)		
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 03 (unit? unit=165&lesson=170)		
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 04 (unit? unit=165&lesson=171)		
<input type="radio"/> Lottery Simulation - Profit or Loss - Part 05 (unit?	4) What is the primary purpose of the matplotlib.pyplot module in Python? 1 point	

- `unit=165&lesson=172)`
- Lottery Simulation - Profit or Loss - Part 06 (unit?
`unit=165&lesson=173)`
- Image Processing - Enhance your images (unit?
`unit=165&lesson=174)`
- Image Processing - Enhance your images - Part 01 (unit?
`unit=165&lesson=175)`
- Image Processing - Enhance your images - Part 02 (unit?
`unit=165&lesson=176)`
- Image Processing - Enhance your images - Part 03 (unit?
`unit=165&lesson=177)`
- Anagrams (unit?
`unit=165&lesson=178)`
- Anagrams - Part 01 (unit?
`unit=165&lesson=179)`
- Anagrams - Part 02 (unit?
`unit=165&lesson=180)`
- Anagrams - Part 03 (unit?
`unit=165&lesson=181)`
- Facebook Sentiment Analysis (unit?
`unit=165&lesson=182)`

- To perform matrix operations.
- To handle file I/O operations.
- To generate and customize visualizations like plots and graphs.
- To manipulate and process images.

Yes, the answer is correct.
Score: 1

Accepted Answers:

To generate and customize visualizations like plots and graphs.

- 5) Which of the following statements is true about anagrams?

1 point

- Two strings of different lengths can be anagrams.
- Two strings are anagrams if they contain the same characters in the same order.
- Two strings are anagrams if they contain the same characters in different orders.

Yes, the answer is correct.
Score: 1

Accepted Answers:

Two strings are anagrams if they contain the same characters in different orders.

- 6) Every character, whether an alphabet, digit, or special character, has an ASCII value. Which of the following methods is used to find the ASCII value ?

1 point

- `ASCII('a')`
- `ord('a')`
- `int('a')`
- `ASC_val('a')`

Yes, the answer is correct.
Score: 1

Accepted Answers:

ord('a')

- 7) Which of the following libraries is commonly used to determine the intensity of emotions in sentiment analysis?

1 point

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

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

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

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

**Quiz: Week 8:
Assignment 8
(assessment?
name=480)**

**Week 8: Programming Assignment 1
(/noc24_cs113/progassignment?name=476)**

**Week 8: Programming Assignment 2
(/noc24_cs113/progassignment?name=478)**

**Week 8: Programming Assignment 3
(/noc24_cs113/progassignment?name=479)**

Week 8 Feedback Form:
The Joy of Computing using Python (unit? unit=165&lesson=187)

- VADER
 Numpy
 Pandas
 SciPy

Yes, the answer is correct.
Score: 1

Accepted Answers:

VADER

8) Which of the following Python code snippets correctly checks if two strings are anagrams?

1 point

- def are_anagrams(str1, str2):
 return sorted(str1) == sorted(str2)

def are_anagrams(str1, str2):
 return set(str1) == set(str2)

def are_anagrams(str1, str2):
 return str1 == str2[::-1]

def are_anagrams(str1, str2):
 return len(str1) == len(str2)

Yes, the answer is correct.
Score: 1

Accepted Answers:

*def are_anagrams(str1, str2):
 return sorted(str1) == sorted(str2)*

9) Why is gambling generally a bad decision ?

1 point

- Because you will lose more money than you win over time.
 Because the probability of winning is always 0.
 Because you will always win.

[Week 9 \(\)](#)[Week 10 \(\)](#)[Week 11 \(\)](#)[Text Transcripts \(\)](#)[Download Videos \(\)](#)[Books \(\)](#)[Problem Solving
Session - July 2024 \(\)](#)

- Because the amount of money you can win is always greater than the amount you lost over time

Yes, the answer is correct.

Score: 1

Accepted Answers:

Because you will lose more money than you win over time.

10) True or False: A significant amount of information can be extracted from an image by applying the appropriate image enhancement techniques

1 point

- True

- False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

X



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Week 9: Assignment 9

The due date for submitting this assignment has passed.

Due on 2024-09-25, 23:59 IST.

Assignment submitted on 2024-09-24, 12:07 IST

- 1) 'nltk.download()' function downloads necessary packages for the Natural Language Toolkit (NLTK) library?

1 point

- True
 False

Yes, the answer is correct.



[Week 3 \(\)](#)[week 4 \(\)](#)[Week 5 \(\)](#)[Week 6 \(\)](#)[Week 7 \(\)](#)[Week 8 \(\)](#)[Week 9 \(\)](#)

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

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

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

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

Natural Language Processing - Author

Score: 1

Accepted Answers:

True

2) Which of the following best defines a complete graph?

1 point

- A graph where every pair of distinct vertices is connected by a unique edge
- A graph with no edges
- A graph with a single vertex
- A graph with at least one loop

Yes, the answer is correct.

Score: 1

Accepted Answers:

A graph where every pair of distinct vertices is connected by a unique edge

3) How many edges are there in a complete graph with 4 nodes?

1 point

- 6
- 8
- 12
- 16

Yes, the answer is correct.

Score: 1

Accepted Answers:

6

4) Which Python library is most commonly used for working with graphs related to networks?

1 point

- Random
- Pandas
- NumPy
- NetworkX



Stylometry - Part 04 (unit?
unit=188&lesson=193)

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

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

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

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

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

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

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

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

Yes, the answer is correct.
Score: 1

Accepted Answers:
NetworkX

5) Gephi is:

- A Python library for linear algebra
- A software for visualizing and analyzing large networks
- A tool for data cleaning and preprocessing
- A Python library for building statistical models

Yes, the answer is correct.
Score: 1

Accepted Answers:
A software for visualizing and analyzing large networks

6) How many attributes typically define a color in digital representations?

- 1
- 2
- 3
- 9

Yes, the answer is correct.
Score: 1

Accepted Answers:
3

7) What is the degree of a node in a graph?

- The number of edges connected to the node
- The shortest path between two nodes
- The number of nodes in the graph
- The distance from the node to the center of the graph

1 point

1 point

1 point

- Six Degrees of Separation : Meet your favourites (unit? unit=188&lesson=202)
- Six Degrees of Separation : Meet your favourites - Part 01 (unit? unit=188&lesson=203)
- Six Degrees of Separation : Meet your favourites - Part 02 (unit? unit=188&lesson=204)
- Six Degrees of Separation : Meet your favourites - Part 03 (unit? unit=188&lesson=205)
- Area Calculation - Don't Measure (unit? unit=188&lesson=206)
- Area Calculation - Don't Measure - Part 01 (unit? unit=188&lesson=207)
- Area Calculation - Don't Measure - Part 02 (unit? unit=188&lesson=208)
- Area Calculation - Don't Measure - Part 03 (unit? unit=188&lesson=209)
- Area Calculation - Don't Measure - Part 04 (unit? unit=188&lesson=210)

Yes, the answer is correct.

Score: 1

Accepted Answers:

The number of edges connected to the node

8) What is the primary goal of stylometry?

1 point

- To analyze the style and structure of literary works for authorship attribution
- To create stylized graphics for digital art
- To study phonology of languages
- To enhance the readability of texts by adjusting font styles

Yes, the answer is correct.

Score: 1

Accepted Answers:

To analyze the style and structure of literary works for authorship attribution

9) Given the following Python code, what is printed in the end?

1 point

```
x = ["apple", "banana", "cherry", "date"]
```

```
k = 0
```

```
for item in x:
```

```
    k += len(item)
```

```
print(k)
```

 4 21 24 26

Yes, the answer is correct.

Score: 1

Accepted Answers:

21



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

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

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

**Quiz: Week 9:
Assignment 9
(assessment?
name=485)**

Week 9: Programming Assignment 1 (/noc24_cs113/progassignment?name=482)

Week 9: Programming Assignment 2 (/noc24_cs113/progassignment?name=483)

Week 9: Programming Assignment 3 (/noc24_cs113/progassignment?name=484)

Week 10 ()

Week 11 ()

Text Transcripts ()

10) How can you estimate the area of a sub-region within a larger region by randomly throwing points in the larger region?

1 point

- By counting the total number of points and calculating the sum of their distances from the center
- By calculating the proportion of points that land in the sub-region compared to the total number of points in the larger region
- By calculating the distance between each point and the boundary of the region
- By averaging the coordinates of all the points that land in the larger region

Yes, the answer is correct.

Score: 1

Accepted Answers:

By calculating the proportion of points that land in the sub-region compared to the total number of points in the larger region



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Week 10: Assignment 10

The due date for submitting this assignment has passed.

Due on 2024-10-02, 23:59 IST.

Assignment submitted on 2024-09-30, 08:06 IST

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

1 point

```
s = "Hello, World!"  
print (s[7:12 ])
```

- "World"
- "World!"



[Week 3 \(\)](#)[week 4 \(\)](#)[Week 5 \(\)](#)[Week 6 \(\)](#)[Week 7 \(\)](#)[Week 8 \(\)](#)[Week 9 \(\)](#)[Week 10 \(\)](#)

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

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

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

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

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

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

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

- "Worl"
- "orld"

Yes, the answer is correct.

Score: 1

Accepted Answers:

"World"

2) Which string method would you use to remove all leading and trailing whitespace from a string in Python?

1 point

- strip()
- split()
- replace()
- join()

Yes, the answer is correct.

Score: 1

Accepted Answers:

strip()

3) Given the string s = "PythonProgramming", what does s [::2] return?

1 point

- "PythonProgramming"
- "Pto rgamn"
- "PyonPormig"
- "PtoPormig"

Yes, the answer is correct.

Score: 1

Accepted Answers:

"PtoPormig"

4) Why are names often converted to lowercase and spaces removed when implementing the FLAMES game in Python?

1 point

- To increase game difficulty
- To ensure consistent character comparison



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

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

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

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

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

**Quiz: Week 10:
Assignment 10
(assessment?
name=491)**

Week 10: Programming Assignment 1 (/noc24_cs113/progassignment?name=486)

Week 10: Programming Assignment 2 (/noc24_cs113/progassignment?name=487)

Week 10: Programming Assignment 3 (/noc24_cs113/progassignment?name=490)

- Because uppercase letters are not supported in Python strings
- To encrypt the names for privacy

Yes, the answer is correct.

Score: 1

Accepted Answers:

To ensure consistent character comparison

5) Given the names "Alice" and "Bob", what is the FLAMES result of their relationship according to the FLAMES game?

1 point

- Friends
- Love
- Affection
- Marriage
- Enemy
- Siblings

Yes, the answer is correct.

Score: 1

Accepted Answers:

Affection

6) Given a = np.array ([1, 2, 3, 4, 5]), what does print(a[1:4]) output?

1 point

- [1 2 3]
- [2 3 4]
- [2 3 4 5]
- [1 2 3 4]

Yes, the answer is correct.

Score: 1

Accepted Answers:

[2 3 4]

7) In the NumPy array arr = np.array ([[1,2,3],[4,5,6],[7,8,9]]), what is the value of arr [1,2]?



[Week 11 \(\)](#)[Text Transcripts \(\)](#)[Download Videos \(\)](#)[Books \(\)](#)[Problem Solving
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- 5
- 6
- 2
- 8

Yes, the answer is correct.

Score: 1

Accepted Answers:

6

8) What is the output of the following Python code? 1 point

```
s = "abcdef"  
print (s[1:5:2])
```

- "bd"
- "bcd"
- "ace"
- "be"

Yes, the answer is correct.

Score: 1

Accepted Answers:

"bd"

9) Can numpy be used when working with images in Python? 1 point

- Yes
- No

Yes, the answer is correct.

Score: 1

Accepted Answers:

Yes

10) When comparing lossy and lossless compression methods, which of the following statements is true? 1 point



- Lossy compression reduces file size without any loss of quality.
- Lossless compression reduces file size without any loss of quality.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Lossless compression reduces file size without any loss of quality.



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NPTEL ()How does an
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Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 11: Assignment 11

The due date for submitting this assignment has passed.

Due on 2024-10-09, 23:59 IST.

Assignment submitted on 2024-10-03, 13:37 IST

1) Which Python library is commonly used for automating web browsers for tasks like **1 point** testing or web scraping?

- datetime
- selenium
- chrome
- webdriver

Yes, the answer is correct.

Score: 1

Accepted Answers:

selenium

2) In Selenium, what is the purpose of the WebDriver (e.g., `webdriver.Chrome()`)? **1 point**

- To interact with databases
- To send HTTP requests
- To control a web browser programmatically
- To parse HTML and XML documents

Yes, the answer is correct.

Score: 1

Accepted Answers:

To control a web browser programmatically

3) Which method is used in Selenium to open a specific URL in the web browser?

- `driver.open(url)`



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

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

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

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

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

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

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

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

Fun with Calendar - Part 04 (unit?

- driver.load(url)
- driver.navigate(url)
- driver.get(url)

Yes, the answer is correct.

Score: 1

Accepted Answers:

driver.get(url)

4) In Selenium, how can you simulate pressing the Enter key in a text input field?

1 point

- input field.send keys(Keys.ENTER)
- input field.submit()
- input field.send keys(Keys.RETURN)
- input field.press('Enter')

No, the answer is incorrect.

Score: 0

Accepted Answers:

input field.send keys(Keys.RETURN)

5) How can you get the current local date and time in Python using the **datetime** module?

1 point

- datetime.date.today()
- datetime.datetime.now()
- datetime.time.now()

Yes, the answer is correct.

Score: 1

Accepted Answers:

datetime.datetime.now()

6) Which function from the **calendar** module can be used to create a formatted string representing a month's calendar?

1 point

- calendar.printmonth()
- calendar.month()
- calendar.monthcalendar()

Yes, the answer is correct.

Score: 1

Accepted Answers:

calendar.month()

7) Which function would you use to replace characters in a string in Python?

1 point

- string.modify()
- string.replace(old, new)
- string.remove(old)
- string.update(new)

Yes, the answer is correct.



unit=227&less
on=235)

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

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

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

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

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

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

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

Fun with
Calendar -
Part 12 (unit?
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on=243)

Quiz: Week 11:
Assignment 11
(assessment? name=499)

Week 11:
 Programming

Score: 1
 Accepted Answers:
string.replace(old, new)

- 8) Which of the following statements correctly imports the **datetime** module in Python? **1 point**
- import datetime
 - from datetime import datetime
 - import datetime as dt
 - All of the given options

Yes, the answer is correct.
 Score: 1

Accepted Answers:
All of the given options

- 9) What does the following Python code output? **1 point**

```
import calendar
print(calendar.isleap(2024))
```

- True
- False
- 2024.0
- None

Yes, the answer is correct.
 Score: 1

Accepted Answers:
True

- 10) Using the datetime module, how can you print the current date 7 times, each time increasing the day by 1 from the current date? **1 point**

- for i in range(7):


```
print(datetime.datetime.now() + datetime.timedelta(days=i))
```
- for i in range(7):


```
print(datetime.date.today() + datetime.timedelta(days=i))
```
- for i in range(7):


```
print(datetime.datetime.today().add(days=i))
```
- for i in range(7):


```
print(datetime.date.now().add(days=i))
```

Yes, the answer is correct.
 Score: 1

Accepted Answers:
*for i in range(7):
 print(datetime.date.today() + datetime.timedelta(days=i))*



Assignment 1
(/noc24_cs113
/progassignme
nt?name=493)

● Week 11:
Programming
Assignment 2
(/noc24_cs113
/progassignme
nt?name=495)

● Week 11:
Programming
Assignment 3
(/noc24_cs113
/progassignme
nt?name=496)

○ Week 11
Feedback
Form: The Joy
of Computing
using Python
(unit?
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on=244)

Week 12 ()

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X



(https://swayam.gov.in)



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

gireesh218@gmail.com ▾

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

≡

Course outline

About NPTEL

()

How does an
NPTEL online
course work?

()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 12: Assignment 12

The due date for submitting this assignment has passed.

Due on 2024-10-16, 23:59 IST.

Assignment submitted on 2024-10-16, 10:55 IST

1) What is the key operation performed when the number n in the Collatz Conjecture is **1 point** even?

- Add 1
- Multiply by 3 and add 1
- Divide by 2
- Subtract 1

Yes, the answer is correct.

Score: 1

Accepted Answers:

Divide by 2

2) What happens to an odd number n in the Collatz Conjecture sequence? **1 point**

- It is divided by 2
- It remains unchanged
- It is replaced by $n \times 3 + 1$
- It is replaced by $n - 1$

Yes, the answer is correct.

Score: 1

Accepted Answers:

It is replaced by $n \times 3 + 1$



Week 9 ()

3) What is the ultimate goal of the Collatz Conjecture sequence?

1 point

- Reach the number 0
- Return to the starting number
- Reach the number 1
- Cycle through odd numbers

Yes, the answer is correct.

Score: 1

Accepted Answers:

Reach the number 1

Week 10 ()

4) Which of the following best describes the Collatz Conjecture?

1 point

- It has been proven for all natural numbers
- It remains an unsolved problem in mathematics
- It is a trivial problem with a simple solution
- It only applies to prime numbers

Yes, the answer is correct.

Score: 1

Accepted Answers:

It remains an unsolved problem in mathematics

Week 11 ()

5) What is the main idea behind the PageRank algorithm used by Google?

1 point

- Count the number of keywords on a page
- Rank pages based on random walks on a graph of web links
- Rank pages based on user reviews
- Rank pages alphabetically

Yes, the answer is correct.

Score: 1

Accepted Answers:

Rank pages based on random walks on a graph of web links

Week 12 ()

6) In PageRank, what happens when a page has a higher number of inbound links from other important pages?

1 point

- Its rank decreases due to the load on the server
- Its rank increases
- Its rank remains unchanged
- It is marked as a less relevant page

Yes, the answer is correct.

Score: 1

Accepted Answers:

Its rank increases

Page Rank -**How does****Google Work ?****- Part 05 (unit?****unit=245&lesso****n=250)****Page Rank -****How does****Google Work ?****- Part 06 (unit?****unit=245&lesso****n=251)****Page Rank -****How does****Google Work ?****- Part 07 (unit?**

7) Which technique is used in the PageRank algorithm to determine the rank of a web page?

1 point

- Depth-first search
- Hyperlink analysis



unit=245&lesso
n=252)

- Random walk simulation
- Data scraping

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

No, the answer is incorrect.
Score: 0
Accepted Answers:
Random walk simulation

8) PageRank relies heavily on the structure of the: 1 point

- Web page content
- Hyperlink network between web pages
- User interaction data
- Server location

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

Yes, the answer is correct.
Score: 1

Accepted Answers:
Hyperlink network between web pages

9) PageRank was developed primarily to solve which problem? 1 point

- Calculating the shortest path in a network
- Ranking the importance of web pages on the internet
- Counting the total number of web pages
- Reducing the size of search engine databases

○ Page Rank -
How does
Google Work ?
- Part 11 (unit?
unit=245&lesso
n=256)

Yes, the answer is correct.
Score: 1

Accepted Answers:
Ranking the importance of web pages on the internet

10) For which values between 200 and 3000 does the Collatz Conjecture not converge to 1 point
1?

- 2498.0
- 1576.0
- 2789.0
- None of the given options

○ Page Rank -
How does
Google Work ?
- Part 12 (unit?
unit=245&lesso
n=257)

Yes, the answer is correct.
Score: 1

Accepted Answers:
None of the given options

○ Page Rank -
How does
Google Work ?
- Part 13 (unit?
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n=258)

○ Page Rank -
How does
Google Work ?
- Part 14 (unit?
unit=245&lesso
n=259)

○ Page Rank -
How does
Google Work ?
- Part 15 (unit?



unit=245&lesso
n=260)

○ Page Rank -
How does
Google Work ?
- Part 16 (unit?
unit=245&lesso
n=261)

○ Collatz
Conjecture -
Part 01 (unit?
unit=245&lesso
n=262)

○ Collatz
Conjecture -
Part 02 (unit?
unit=245&lesso
n=263)

○ JOC
Conclusion
(unit?
unit=245&lesso
n=264)

● Quiz: Week 12:
Assignment
12
(assessment?
name=500)

● Week 12:
Programming
Assignment 1 (/
noc24_cs113/
progassignmen
t?name=494)

● Week 12:
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progassignmen
t?name=497)

● Week 12:
Programming
Assignment 3 (/
noc24_cs113/
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t?name=498)

○ Week 12



Feedback

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