



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

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



Course outline How does an NPTEL online course work? () Week 0 () Week 1 () Week 2 () Week 3 () week 4 ()

Week 6 ()

Week 5 ()

- Substitution
 Cipher -The
 science of
 secrecy (unit?
 unit=124&lesso
 n=125)
- Substitution
 Cipher -The
 science of
 secrecy 01
 (unit?
 unit=124&lesso
 n=126)
- SubstitutionCipher -The

Week 6: Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-03-08, 23:59 IST.

Assignment submitted on 2023-03-01, 15:55 IST

Which of the following is true about recursion?
Recursion always performs better than non-recursive code.
Recursive code can be reused.
The base case is necessary for recursion.
Recursive code can be shorter than non-recursive code
Yes, the answer is correct. Score: 1

Accepted Answers:

Recursive code can be reused.

The base case is necessary for recursion.

Recursive code can be shorter than non-recursive code

2) If PYTHON is encoded by TCXLSR then DIAMOND will be encoded as?

1 point

1 point

- EJBNPOE
- FKCORPF
- HMERTSH
- HMEQSRH

Yes, the answer is correct.

Score: 1

Accepted Answers:

HMEQSRH

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

science of secrecy 02 (unit? unit=124&lesso n=127)

- Substitution
 Cipher -The
 science of
 secrecy 03
 (unit?
 unit=124&lesso
 n=128)
- Tic Tac Toe Down the
 memory Lane
 (unit?
 unit=124&lesso
 n=129)
- Tic Tac Toe Down the
 memory Lane
 o1 (unit?
 unit=124&lesso
 n=130)
- Tic Tac Toe Down the
 memory Lane
 02 (unit?
 unit=124&lesso
 n=131)
- Tic Tac Toe Down the
 memory Lane
 03 (unit?
 unit=124&lesso
 n=132)
- Tic Tac Toe Down the
 memory Lane
 04 (unit?
 unit=124&lesso
 n=133)
- Tic Tac Toe Down the
 memory Lane
 05 (unit?
 unit=124&lesso
 n=134)
- Recursion (unit? unit=124&lesso n=135)
- Recursion 01 (unit? unit=124&lesso n=136)

random.random(L)

Yes, the answer is correct.

Score: 1

Accepted Answers: random.choices(L)

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

0

0 1

2

3

Yes, the answer is correct.

Score: 1

Accepted Answers:

2

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

1 point

1 point

```
import string

def shift(word,value):
    letters = string.ascii_lowercase
    new = ''

for i in range(len(word)):
    if word[i] in letters:
        index = letters.index(word[i])
        new = new + letters[(index+value)%26]

    else:
        new = new + word[i]
    return new
```

- Shift every letter in a given word by value.
- Shift every letter in a given word by 1.
- Shift every letter in a given word by 26.
- Returns the same word.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Shift every letter in a given word by value.

6) Library used to import images?

1 point

- PIL
- Imageview
- IMG

- Recursion 02 (unit? unit=124&lesso n=137)
- Recursion 03 (unit? unit=124&lesso n=138)
- Recursion 04 (unit? unit=124&lesso n=139)
- Recursion 05 (unit? unit=124&lesso n=140)
- Recursion 06 (unit? unit=124&lesso n=141)
- Week 6
 Feedback
 Form: The Joy
 of Computing
 using Python
 (unit?
 unit=124&lesso
 n=142)
- Quiz: Week 6: Assignment 1 (assessment? name=310)
- Week 6: Programming Assignment 1 (/noc23_cs20/pr ogassignment? name=311)
- Week 6:
 Programming
 Assignment 2
 (/noc23_cs20/pr ogassignment?
 name=312)
- Week 6:
 Programming
 Assignment 3
 (/noc23_cs20/pr ogassignment?
 name=313)

Week 7 ()

Week 8 ()

Week 9 ()

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

- 7) Values of CSV files are separated by?
 - Commas
 - Colons

PIL

- Semi-colons
- Slash

Yes, the answer is correct.

Score: 1

Accepted Answers:

Commas

8) what will be the output of the following program?

1 point

1 point

```
def recursive(num):
 2
 3
          if(num==1):
               print('*')
               return
 6
          if(num%2 == 0):
               print('*'*num)
               recursive(num-1)
10
               return
11
          else:
12
               recursive(num-1)
13
               return
14
      recursive(10)
15
```

```
*******

******

*****

*****

****

***

***

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**

**
```

Week 10 ()	****	
V	**	
Week 11 ()	*	
()	Yes, the answer is correct.	
Week 12 ()	Score: 1	
1100K 12 ()	Accepted Answers:	
Text	******	
Transcripts ()	*****	
rianscripts ()	*****	
Download	***	
	**	
Videos ()	*	
Books ()	9) What will happen if we don't check for a base case in recursion.	1 poin
Doorlo ()	by What will happen if we don't check for a base case in recursion.	ı pom
Live Session	○ The program will run smoothly	
()	○ The program will return a wrong output.	
	The program will enter into an infinite loop.	
Problem	○ The program will never run.	
Solving	The program will hever full.	
Session ()	Yes, the answer is correct. Score: 1	
	Accepted Answers:	
	The program will enter into an infinite loop.	
	10) Which of the following is true about recursion?	1 poin
	Recursion increases the speed of the program.	
	Recursion decreases the speed of the program.	
	Speed of the program remains the same.	
	Recursion is easier to understand than non-recursive programs.	

Yes, the answer is correct. Score: 1

Recursion decreases the speed of the program.

Accepted Answers: