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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming, Data Structures And Algorithms Using Python (course)



Course outline

How does an NPTEL online course work? ()

Week 1 : Introduction ()

Week 1 Quiz ()

Week 2: Basics of Python ()

Week 2 Quiz ()

Week 2 Programming Assignment ()

Week 3: Lists, inductive

Online Test 1, Question 7

Due on 2021-03-09, 12:00 IST

Question 7

Write a Python program that reads input from the keyboard (standard input). The input will be terminated by a blank line. The lines are numbered 0,1,2,... Your program should print out the even numbered lines followed by the odd numbered lines. In other words, first print lines 0,2,4,... then lines 1,3,5,...

E.g., if the input is the following:

```
Line zero
Line one
Line two
Line three
Line four
```

then the output should be:

```
Line zero
Line two
Line four
Line one
Line three
```

Sample Test Cases

Input

Output

function definitions, sorting ()		
Week 3 Programming Assignment ()		
Week 4: Sorting, Tuples, Dictionaries, Passing Functions, List Comprehension ()	Test Case 1	<p>Despite the negative connotations surrounding the colloquial term deepfakes (people don't usually want to be associated with the word "fake"), the technology is increasingly being used commercially. More politely called AI-generated videos, or synthetic media, usage is growing rapidly in sectors including news, entertainment and education, with the technology becoming increasingly sophisticated. One of the early commercial adopters has been Synthesia, a London-based firm that creates AI-powered corporate training videos for the likes of global advertising firm WPP and business consultancy Accenture.</p>
Week 4 Quiz ()		<p>Despite the negative connotations deepfakes (people don't usually word "fake"), the technology is commercially. More politely synthetic media, usage is growing news, entertainment and becoming increasingly commercial adopters has been that creates AI-powered corporate global advertising firm WPP and surrounding the colloquial term want to be associated with the increasingly being used called AI-generated videos, or rapidly in sectors including education, with the technology sophisticated. One of the early Synthesia, a London-based firm training videos for the likes of business consultancy Accenture.</p>
Week 4 Programming Assignment ()		
Week 5: Exception handling, input/output, file handling, string processing ()	Test Case 2	<p>"This is the future of content creation," says Synthesia chief executive and co-founder Victor Riparbelli. To make an AI-generated video using Synthesia's system you simply pick from a number of avatars, type in the word you wish for them to say, and that is pretty much it.</p>
Week 5 Programming Assignment ()		<p>"This is the future of Synthesia chief executive Riparbelli. To make an Synthesia's system you of avatars, type in the say, and that is pretty content creation," says and co-founder Victor AI-generated video using simply pick from a number word you wish for them to much it.</p>
Week 6: Backtracking, scope, data structures; stacks, queues and heaps ()		
Week 6 Quiz ()		

Week 7: Classes, objects and user defined datatypes ()
Week 7 Quiz ()
Week 8: Dynamic programming, wrap-up ()
Week 8 Programming Assignment ()
Text Transcripts ()
Books ()
Download Videos ()
Online Programming Test - Sample ()
Online Programming Test 1, 01 Dec 2020, 10:00-12:00 ()
Online Programming Test 2, 01 Dec 2020, 20:00-22:00 ()
Online Programming Test 1, 09 Mar 2021, 10:00-12:00 ()

Test
Case
3

Mr Riparbelli says this means that global firms can very easily make videos in different languages, such as for in-house training courses. "Let's say you have 3,000 warehouse workers in North America," he says. "Some of them speak English, but some may be more familiar with Spanish. "If you have to communicate complex information to them, a four-page PDF is not a great way. It would be much better to do a two or three-minute video, in English and Spanish.

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- Online Test 1, Question 1 (/noc20_cs26/progassignment?name=148)
- Online Test 1, Question 2 (/noc20_cs26/progassignment?name=149)
- Online Test 1, Question 3 (/noc20_cs26/progassignment?name=151)
- Online Test 1, Question 4 (/noc20_cs26/progassignment?name=152)
- Online Test 1, Question 5 (/noc20_cs26/progassignment?name=155)
- Online Test 1, Question 6 (/noc20_cs26/progassignment?name=156)
- Online Test 1, Question 7 (/noc20_cs26/progassignment?name=157)
- Online Test 1, Question 8 (/noc20_cs26/progassignment?name=158)

Online Programming Test 2, 09 Mar 2021, 20:00-22:00 ()

Test Case 5

"If you had to record every single one of those videos, that's a massive piece of work. Now we can do that for [little] production costs, and whatever time it'll take someone to write the script. That pretty much exemplifies how the technology is used today." Mike Price, the chief technology officer of ZeroFox, a US cyber-security company that tracks deepfakes, says their commercial use is "growing significantly year over year, but exact numbers are difficult to pin down". However, Chad Steelberg, chief executive of Veritone, a US AI technology provider, says that the increasing concern about malicious deepfakes is holding back investment in the technology's legitimate, commercial use. "The term deepfakes has definitely had a negative response in terms of capital investment in the sector," he says. "The media and consumers, rightfully so, can clearly see the risks associated. "It has definitely hindered corporations as well as investors from piling into the technology. But I think you are starting to see that crack."

Line zero
Line one
Line two
Line three
Line four

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Line zero
Line two
Line four
Line one
Line three

Test
Case
6

A few months ago, millions of TV viewers across South Korea were watching the MBN channel to catch the latest news. At the top of the hour, regular news anchor Kim Joo-Ha started to go through the day's headlines. It was a relatively normal list of stories for late 2020 - full of Covid-19 and pandemic response updates. Yet this particular bulletin was far from normal, as Kim Joo-Ha wasn't actually on the screen. Instead she had been replaced by a "deepfake" version of herself - a computer-generated copy that aims to perfectly reflect her voice, gestures and facial expressions. Viewers had been informed beforehand that this was going to happen, and South Korean media reported a mixed response after people had seen it. While some people were amazed at how realistic it was, others said they were worried that the real Kim Joo-Ha might lose her job.

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The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```
1 inputlines = []
2 inputline = input()
3 while(inputline):
4     inputlines.append(inputline)
5     inputline = input()
6
7 for i in range(0,len(inputlines),2):
8     print(inputlines[i])
9 for i in range(1,len(inputlines),2):
10    print(inputlines[i])
11
```

