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

[Announcements \(announcements\)](#)

**About the Course ([https://swayam.gov.in/nd1\\_noc19\\_cs40/preview](https://swayam.gov.in/nd1_noc19_cs40/preview))**    [Ask a Question \(forum\)](#)

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# Online Test 1, Question 1

**Due on 2019-09-26, 11:30 IST**

Course  
outline

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**How to access  
the portal**

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**Week 1:  
Introduction**

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**Week 1 Quiz**

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**Week 2:  
Basics of  
Python**

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**Week 2 Quiz**

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**Week 2  
Programming  
Assignment**

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**Week 3: Lists,  
inductive  
function**

definitions,  
sorting

Week 3  
Programming  
Assignment

Week 4:  
Sorting,  
Tuples,  
Dictionaries,  
Passing  
Functions, List  
Comprehension

Week 4 Quiz

Week 4  
Programming  
Assignment

Week 5:  
Exception  
handling,  
input/output,  
file handling,  
string  
processing

Week 5  
Programming  
Assignment

Week 6:  
Backtracking,  
scope, data  
structures;  
stacks,  
queues and  
heaps

Week 6 Quiz

Week 7:  
Classes,  
objects and  
user defined  
datatypes

Week 7 Quiz

# Instructions

This is the first of two online programming tests.

- These tests account for 25% of the total evaluation for the course.
- The duration of the test is 2 hours.
- The first test will be from 9:30-11:30 am and the second from 8:00-10:00 pm, on Thursday, 26 September 2019.
- You can attempt either of the tests. The best score will be counted..

## Question 1

Here is a function `isprimebad` that takes a positive integer as input and returns `True` if the number is prime and `False` otherwise. There is an error in this function. Provide an input `n`, which is a positive integer, for which `isprimebad` produces an incorrect output.

```
import math

def isprimebad(n):
    if n < 2:
        return(False)
    else:
        for i in range(2, int(math.sqrt(n))):
            if n%i == 0:
                return(False)
        return(True)
```

Open up the code submission box below and write your test case where you would normally paste your code. Your input should be a single integer `n`.

### Sample Test Cases

	Input	Output
Test Case 1	<input type="text"/>	<input type="text" value="True"/>
Test Case 2	<input type="text"/>	<input type="text" value="True"/>

Due Date Exceeded.

As per our records you have not submitted this assignment.

**Week 8:  
Dynamic  
programming,  
wrap-up**

**Week 8  
Programming  
Assignment**

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**Online  
Programming  
Test - Sample**

**Online  
Programming  
Test 1, 26 Sep  
2019, 09:30-  
11:30**

☐ Online Test 1,  
Question 1  
(/noc19\_cs40/progassignment?  
name=113)

☐ Online Test 1,  
Question 2  
(/noc19\_cs40/progassignment?  
name=114)

☒ Online Test 1,  
Question 3  
(/noc19\_cs40/progassignment?  
name=115)

☐ Online Test 1,  
Question 4  
(/noc19\_cs40/progassignment?  
name=116)

☒ Online Test 1,  
Question 5  
(/noc19\_cs40/progassignment?  
name=117)

☐ Online Test 1,  
Question 6  
(/noc19\_cs40/progassignment?  
name=118)

- Online Test 1,  
Question 7  
(/noc19\_cs40/progassignment?  
name=119)

- Online Test 1,  
Question 8  
(/noc19\_cs40/progassignment?  
name=120)