

NPTEID

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Courses » Programming, Data Structures and Algorithms using Python

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Announcements

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FAC

Unit 3 - Week 1 Quiz



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Course outline

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Week 1: Introduction

Week 1 Quiz

Quiz : Week 1
Quiz

Week 2: Basics of Python

Week 2 Quiz

Week 2 Programming Assignment

Week 3: Lists, inductive function definitions, sorting

Week 3 Programming Assignment

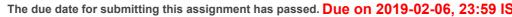
Week 4: Sorting, Tuples, Dictionaries, Passing Functions, List Comprehension

Week 4 Quiz

Week 4 Programming Assignment

Week 5: Exception handling, input/output, file

Week 1 Quiz





Assignment submitted on 2019-02-06, 21:02 IST

All questions carry equal weightage. All Python code is assumed to be executed using Python3. You may submit as many times as you like within the deadline. Your final submission will be graded.

1) What is the value of f(255) for the function below?

```
def f(x):
    d=0
    while x >= 1:
        (x,d) = (x/4,d+1)
    return(d)
```

4

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: String) 4

2.5 points

2) What is h(28) - h(27), given the definition of h below?

```
def h(n):
    s = 0
    for i in range(1,n):
        if n%i == 0:
        s = s+i
    return(s)
```

15

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: String) 15

2.5 points

3) For what value of n would g(47,n) return 5? If there are multiple possibilities, write any one.

```
def g(m,n):
res = 0
```

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

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```
while m >= n:
    (res,m) = (res+1,m-n)
return(res)
```

8

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

(Type: String) 9 (Type: String) 8



2.5 points







4) Consider the following function f:

```
def mys(m):
    if m == 0:
        return(1)
    else:
        return(m*mys(m-1))
```

Which of the following is correct?

- The function always terminates with mys(n) = factorial of n
- The function always terminates with mys(n) = 1+2+...+n
- The function terminates for nonnegative n with mys(n) = factorial of n
- The function terminates for nonnegative n with mys(n) = 1+2+...+n

Yes, the answer is correct.

Score: 2.5

Accepted Answers:

The function terminates for nonnegative n with mys(n) = factorial of n

End

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