

<https://swayam-uat-central.appspot.com>[https://swayam-uat-central.appspot.com/nc\\_details/AICTE](https://swayam-uat-central.appspot.com/nc_details/AICTE)[central.appspot.com/nc\\_details/AICTE](https://swayam-uat-central.appspot.com/nc_details/AICTE)[suchetajw47@gmail.com](mailto:suchetajw47@gmail.com) ✓

**AICTE** (<https://swayam-uat-central.appspot.com/explorer?ncCode=AICTE>) » **Programming and Data Structures with Python (course)**



## Course outline

### Practice Assignments

#### Practice Quiz 1

- **Practice:**  
**Practice Quiz 1**  
(assessment? name=6)

**Quiz 1, Mon 25 Oct 2021**

**PDSP Assignment 1, due Tue 2 Nov 2021**

**PDSP Assignment 2, due Fri 12 Nov 2021**

**Quiz 2, Mon 8 Nov 2021**

# Practice Quiz 1

Your last recorded submission was on 2021-10-11, 13:23 IST

Previous Score: 100%

- This is a practice quiz to give you an idea how a real quiz would look like.
- Had this been a real quiz, you would not be able to check your answers before submitting them. You would still be able to make multiple submissions. The last submission will be graded.
- For a real quiz, correct answers and explanations will be made available after the quiz deadline.

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  $f(846)$  for the function below?

```
def f(x):  
    d=0  
    y=1  
    while y <= x:  
        d=d+1  
        y=y*3  
    return(d)
```

**1 point**

**PDSP  
Assignment 3,  
due Wed 24 Nov  
2021**

**PDSP  
Assignment 4,  
due Fri 17 Dec  
2021**

**Quiz 3, Thu 16  
Dec 2021**

**PDSP Quiz 4,  
Thu 23 Dec  
2021**

**PDSP  
Assignment 5,  
due Fri 31 Dec  
2021**

2) What is  $h(41) - h(40)$ , given the definition of  $h$  below?

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

**1 point**

3) For what value of  $n$  would  $g(57,n)$  return 7?

```
def g(m,n):  
    res = 0  
    while m >= n:  
        res = res+1  
        m = m-n  
    return(res)
```

**1 point**

4) Consider the following function `mys`:

**1 point**

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

Which of the following is correct?

- ☐ The function always terminates with  $mys(n) = \text{factorial of } n$
- ☐ The function always terminates with  $mys(n) = 1+2+\dots+n$
- ☐ The function terminates for non-negative  $n$  with  $mys(n) = \text{factorial of } n$
- ☐ The function terminates for positive  $n$  with  $mys(n) = \text{factorial of } n$

**Check Answers and Submit**

