

[Skip to main content](#)

Side panel

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- 
- 0

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- [General](#)
- [Labs](#)
- [Home](#)
- [Dashboard](#)
- [Calendar](#)
- [Private files](#)
- My courses
- [CITS1401 2022S2](#)

# CITS1401 Computational Thinking with Python (2022S2)

1. [Home](#)
2. My courses
3. [CITS1401 2022S2](#)
4. [Labs](#)
5. [Lab 01. Python basics](#)

## Question 9

Not complete

Marked out of 1.00

🚩 Flag question

### Question text

Write a statement to sum the squares of the variables a, b, c and d, and store the result in variable s

Answer:(penalty regime: 0, 0, 10, 20, ... %)

Reset answer

1 a = 10

```
2 b = 12
3 c = 15
4 d = 20
5 # Do not change the code above this line. Write your code below.
6
7 s = a**2 + b**2 + c**2 + d**2
```

Check

## Question 10

Not complete

Marked out of 3.00

Flag question

### Question text

Write a program to print the factorial of variable x.

Answer:(penalty regime: 0, 0, 10, 20, ... %)

Reset answer

```
1 x = int(input(""))
2 # Don't change the above line of code. You can assume that x will always be either a positive integer or 0
3
4 def factorial(i):
5     if i == 1:
6         return 1
7     else:
8         return i*factorial(i-1)
9
10 output=factorial(x)
11 print(output)
```

Check

## Question 11

Not complete

Marked out of 4.00

Flag question

### Question text

Write a program that finds the sum of squares of all numbers between zero and a whole number x that the user enters (x can be positive or negative). The program must then print the result of this calculation to the

shell. For instance, if the user enters 5, then the sum of the squares of numbers 0, 1, 2, 3, 4 and 5 is 55, so your program should print 55 to the shell. Similarly the sum of squares for all numbers up to -4 is 30. Note that the 'user entry' part of the program has already been written for you (this is the `x = int(input(""))` line the is pre-loaded into the answer box).

Answer:(penalty regime: 0, 0, 10, 20, ... %)

Reset answer

```
1 x = int(input())
2 # Don't change the above line of code. Add your code after this line. Remember not to print anything
3
4 x = abs(x)
5
6 def addddd(i):
7     if i == 1:
8         return 1
9     else:
10        return addddd(i-1) + i**2
11 output = addddd(x)
12 print(output)
```

Check

Previous page

Next page

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[◀ Lab 00. Introduction](#)

Jump to...

[Lab 01. Python basics \(for late submission or approved special considerations\) ▶](#)

[Skip <span id="mod\\_quiz\\_navblock\\_title">Quiz navigation</span>](#)

**Quiz navigation**

[Information i](#) [Information i](#) [Question 1](#) [Question 2](#) [Question 3](#) [Question 4](#) [Question 5](#) [Information i](#)

[Information i](#) [Question 6](#) [Question 7](#) [Question 8](#) [Question 9](#) [This page](#) [Question 10](#) [This page](#) [Question 11](#)

[This page](#) [Question 12](#) [Question 13](#) [Question 14](#)

[Finish attempt ...](#)

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