

MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

<u>Help</u>



Course > Week 1: Python Basics > 2. Core Elements of Programs (TIME: 54:14) >

Exercise: while

Exercise: while

Exercise: while exercise 1

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

In this problem you'll be given a chance to practice writing some while loops.

1. Convert the following into code that uses a while loop.

print 2

prints 4

prints 6

prints 8

prints 10

prints Goodbye!



```
1 num= 0
2 while num < 10:
3    num += 2
4    print(num)
5 print("Goodbye!")</pre>
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results

See full output

CORRECT

See full output

Submit

Exercise: while exercise 2

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

2. Convert the following into code that uses a while loop.

```
prints Hello!
prints 10
prints 8
prints 6
prints 4
prints 2
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results

See full output
CORRECT
See full output

Submit

Exercise: while exercise 3

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

3. Write a while loop that sums the values 1 through <code>end</code>, inclusive. <code>end</code> is a variable that we define for you. So, for example, if we define <code>end</code> to be 6, your code should print out the result:

```
21
```

which is 1 + 2 + 3 + 4 + 5 + 6.

For problems such as these, do not include <code>input</code> statements or define variables we will provide for you. Our automating testing will provide values so write your code in the following box assuming these variables are already defined.

Hint: Don't Use A Variable Called 'sum'

```
total = 0
n = 1

while n <= end:
    total += n
n    n += 1
print(total)</pre>
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results

CORRECT

See full output

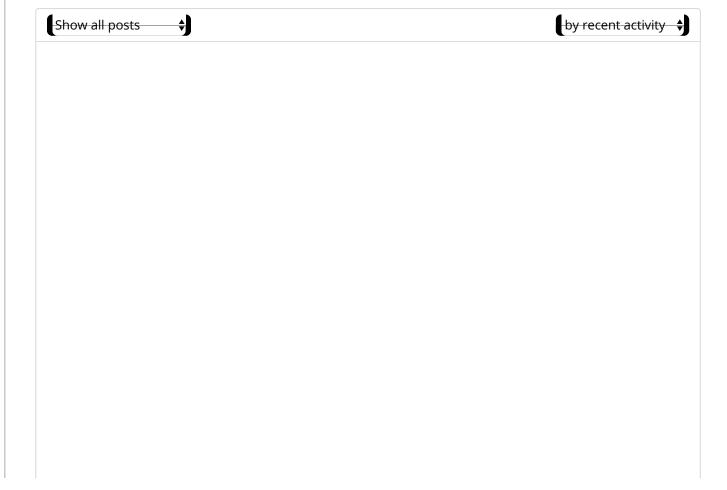
See full output

Exercise: while

Topic: Lecture 2 / Exercise: while

Hide Discussion

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| ? Spoiler Q2: How to move the "Hello!" to the beginning? | 3 |
|--|----------|
| <u>I can copy my while code from Q1 but don't know how to get "Hello!" to print first. In other</u> | 3 |
| ? <u>question2</u> code i wrote should run correctly, but i continue to get an error when i submit. why? here's | 6 |
| <u> </u> | |
| Question 3 Sorry mine result in "Incorrect" What is wrong with this code result = 0 while(1): for item in r | 5 |
| 1 exercise I used x instead of num but my code was good still i was marked incorrect:/ | 1 |
| | |
| Pseudocode for Problem 3 I noticed many people have been struggling with problem 3. Leffer this piece of pseudocode | _ |
| I noticed many people have been struggling with problem 3. I offer this piece of pseudocode | 3 |
| ▲ Community TA | |
| • bull | 1 |
| this is Bull! i wrote code that is entirely within a While loop except for declaration of variable | ٦, |
| ? Why is my code wrong!! | |
| <u>I have used count and n as variables instead of current and total but the logic is same</u> | 2 |
| | |
| ✓ Question 1: why is my code incorrect? | 8 |
| Hi, I ran the code below for Question 1 and the grader said it was incorrect. However, I got t | |
| ? NameError: name 'variable' is not defined | 2 |
| So I am pretty sure my code itself is functional. It works in PyCharm, my IDLE. The error I'm | 2 |
| • Oddly confused | |
| Oddly confused I look at this with odd shame. How did this work? The proper solution made sense, but this | 1 |
| | |
| Advice on Question 3 | 6 |
| Hi everyone, After trying several times by using partial code that I found here, I ended up fig | |
| Quetions about # 1 | 2 |
| Hint for Exercise 3 is confusing | 2 |
| Wording of the hint is confusing. I initially thought this meant that we could NOT use a varia | |

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