

⬆ Back to 'Lab 4 - While Loops'

Started on Saturday, 29 September 2018, 3:31 PM

State Finished

Completed on Wednesday, 3 October 2018, 9:07 PM

Time taken 4 days 5 hours

Grade 5.00 out of 5.00 (100%)

Question 1

Correct

Not graded

Enter your partner's UD email address. If you did not work with a partner enter the word "none".

Answer:

Question 2

Correct

Mark 1.00 out of 1.00

Use a *while* loop to print the integers from 16 to 1 (including both 16 and 1) each on their own line in descending order.

Answer:

```
1 number = 11
2 while number < 23:
3     number += 1
4     print(number)
5
```

	Test	Expected	Got	
✓	' '	12 13 14 15 16 17 18 19 20 21 22 23	12 13 14 15 16 17 18 19 20 21 22 23	✓
✓	print("while" in __student_answer__)	True	True	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of
1.00

Given pre-defined variables **start** and **stop** which are both assigned to **ints**, use a while loop to sum the integers between **start** (inclusive) and **stop** (exclusive) and display the result.

Note: You may assume that **start** will be less than or equal to **stop**.

Answer:

```
1 number = 0
2 total = 0
3 while number < 50:
4     number += 1
5     total = total + number ** 2
6
```

	Test	Expected	Got	
✓	print(total)	42925	42925	✓
✓	print("while" in __student_answer__)	True	True	✓

Testing was aborted due to error.

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

Correct

Mark 1.00 out of
1.00

Assume a variable **num** has already been assigned to a positive integer. Use a *while* loop to compute the sum of the squares of the integers from 1 to **num** inclusive. Store the result in the variable **total**.

Answer:

```
1 total = 0
2 number = 0
3 while number < num:
4     number += 1
5     total = total + number ** 2
```

	Test	Expected	Got	
✓	num=5	55	55	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 5

Correct

Mark 1.00 out of
1.00

Write a program which asks the user keep inputting values on a line followed by **enter** until they enter a blank line, at which point the program should print the number of lines entered (excluding the blank).

Answer:

```
1 counter = 0
2 keep_going = True
3 while keep_going:
4     command = input("Enter any line (blank line to quit): ")
5     if command == "":
6         print(counter)
7         keep_going = False
8     else:
9         counter += 1
```

	Input	Expected	Got	
✓	five 7	2	2	✓
✓	six hi hello help!	4	4	✓
✓		0	0	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 6

Correct

Mark 1.00 out of
1.00

Write a program that asks users to enter values at the keyboard followed by **enter** until they hit **enter** by itself. The program should print the number of times the user typed **hello** on a line by itself.

Answer:

```
1 counter = 0
2 keep_going = True
3 while keep_going:
4     command = input("Enter a 'hello' (blank line to quit): ")
5     if command == "hello":
6         counter += 1
7         keep_going = True
8     elif command == "":
9         keep_going = False
10    else:
11        keep_going = True
12
13 print(counter)
```

	Input	Expected	Got	
✓	hi hello	1	1	✓
✓		0	0	✓
✓	hi hello hello	0	0	✓
✓	9 5 7	0	0	✓
✓	hello hello hello hi	3	3	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.