Module 3 Graded Assessment

100%

10070



2. The show_letters function should print out each letter of a word on a separate line. Fill in the blanks to make that happen.



```
1 - def show_letters(word):
2 - for i in word:
3    print(i)
4    Show_letters("Hello")
6  # Show_letters("Hello")
7    Reset

Correct

Great job! You're working the "for" loops the way they're supposed to be done!
```

Complete the function digits(n) that returns how many digits the number has. For example: 25 has 2 digits
and 144 has 3 digits, Tip; you can figure out the digits of a number by dividing it by 10 once per digit until
there are no digits left.



4. This function prints out a multiplication table (where each number is the result of multiplying the first number of its row by the number at the top of its column). Fill in the blanks so that calling multiplication_table(1, 3) will print out: 1/1 point

```
123

246

369

1 * def multiplication_table(start, stop):
2 * for x in range(start, stop-1):
3 * for y in range(start, stop-1):
4 * print(str(x*y), end="")
5 * print()
6 * multiplication_table(1, 3)
8 * Should print the multiplication table shown above

✓ Correct

Awesomel You've stepped up to the challenge of one of the
```

5. The counter function counts down from start to stop when start is bigger than stop, and counts up from start to stop otherwise. Fill in the blanks to make this work correctly.

more complex coding practices, nested loops!

1/1 point

6. The loop function is similar to range(), but handles the parameters somewhat differently: it takes in 3

need to be considered!

parameters: the starting point, the stopping point, and the increment step. When the starting point is greater than the stopping point, it forces the steps to be negative. When, instead, the starting point is less than the stopping point, it forces the step to be positive. Also, if the step is 0, it changes to 1 or -1. The result is returned as a one-line, space-separated string of numbers. For example, loop(11,2,3) should return 11 8.5 and loop(1,5,0) should return 12 3.4. Fill in the missing parts to make that happen.



✓ Correct
Woohoo! You're looping through the numbers backwards and forwards, like a pro!

7. The following code raises an error when executed. What's the reason for the error?

1 / 1 point



Wrong comparison operator



Well done! The variable year needs to be initialized prior to being used in the while loop.

8. What is the value of x at the end of the following code?

1/1 point

```
7

Correct

You got it! The upper limit of a range isn't included, which means that the loop stops before reaching it. The increment is 3, so the loop stops when x reaches 7.
```

9. What is the value of y at the end of the following code?

1/1 point

```
1 - for x in range(10):
2 - for y in range(x):
3

8

Correct

Great job! The upper limit of a range isn't included, which means that the outer loop goes up to 9, so the highest upper limit for the inner loop is 9, which is also not included.
```

10. How does this function need to be called to print yes, no, and maybe as possible options to vote for?

1/1 point