def show_letters(word):
 for i in word:
 print(i)

show_letters("Hello")

GRADE 90%

Module 3 Graded Assessment

90%



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.



✓ Correct

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

3. 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:

termine at the top of its committee and its state and its state and its state at the top of its committee at the t

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
7 multiplication_table(1, 3)
8 # Should print the multiplication table shown above

Reset
```

✓ Correct

Awesome! You've stepped up to the challenge of one of the more complex coding practices, nested loops!

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.

0 / 1 point

```
zi princ(councer(5, 5)) # Should be councing up. 5
                  Not quite, counter(2, 1) returned Counting down: 2,, should
                  be Counting down: 2,1.
6. The even_numbers function returns a space-separated string of all positive numbers that are divisible by 2, up to and including 1/1 point the maximum that's passed into the function. For example, even_numbers(6) returns "2 4 6". Fill in the blank to make this
    work.
                    def even_numbers(maximum):
    return_string = ""
    for x in range (1,maximum+1 ):
        if (x%2 ==0):
            return_string += str(x) + " "
    return_string.strip()
               7
8 print(even_numbers(6)) # Should be 2 4 6
9 print(even_numbers(10)) # Should be 2 4 6 8 10
10 print(even_numbers(1)) # No numbers displayed
11 print(even_numbers(3)) # Should be 2
12 print(even_numbers(8)) # No numbers displayed
                                                                                                                                         Run
          ✓ Correct
                  Woohoo! You remembered all of the elements of the range of
                  the for-loop, well done!
                                                                                                                                                      1/1 point
7. The following code raises an error when executed. What's the reason for the error?
                 def decade_counter():
    while year < 50:
        year += 10
    return year</pre>
      O Incrementing by 10 instead of 1

    Failure to initialize variables

     O Nothing is happening inside the while loop
      O Wrong comparison operator
          ✓ Correct
              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
                 for x in range(1, 10, 3):
                       print(x)
        ✓ 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.
                                                                                                                                                      1/1 point
9. What is the value of y at the end of the following code?
                  for x in range(10):
    for y in range(x):
        print(y)
              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 yote for?
                                                                                                                                                      1/1 point
             def votes(params):
                       for vote in params:
    print("Possible option:" + vote)
      O votes("yes", "no", "maybe")
      ovotes(yes, no, maybe)
      ovotes([yes, no, maybe])
      ovotes(['yes', 'no', 'maybe'])
          ✓ Correct
               Excellent! This function is looking for one argument, and the list of strings is just one argument.
```