Test Sheet 4: While Loops

Use the test sheet to:

- Check your own progress
- Practice giving and receiving feedback by working with our course members.

1. The following program contains four errors – what are they? Classify each error:
   a. Syntax: an error message the occur before the program runs
   b. Runtime: there will be an error while the program is running
   c. Logic: the program will run but the answer is wrong.
   Use the Python interpreter to check.

```
1:  rows = int(input("how many rows? ")
2:  if rows > 0:
3:      count = 0
4:      while count <= rows
5:          print(str(count)*counter)
6:  else:
7:      print("No rows")
```

Error	Line & Description	Type
1		
2		
3		
4		

2. Copy and complete the following dry run table for the program above – either correct it or use the dry run to find the errors. Add more rows as needed. Start by assuming the user inputs '2' but try other values as well.

rows	count	What is printed

3. Write a program to input a string (a name for example) and double all the characters. Here are is an example:

```
>>>
Enter a name: William
WWiilllliiaamm
```

Another variation just doubles the vowels:

```
>>>
Enter a name: William
Wiilliiaam
```