# A Few More Practice Questions (improvised by Rob) 

True/False:

$\qquad$ You can concatenate lists with the " + " operator
$\ldots \quad y+=1$ is always equivalent to $y=y+1$
$\qquad$ string_variable[:-1] will return the original string variable in reverse order

## FitB:

The data type that can represent any real number is called a $\qquad$ .

A function will immediately stop executing and exit with a $\qquad$ statement.

A $\qquad$ is an ordered collection of zero or more values of any type.

A conditional must always start with the $\qquad$ keyword, but can have any number of
$\qquad$ branches after that, and may mor may not have one $\qquad$ branch at the end.

## Short Answers:

Write the value of each slice for the following list: 1st $=[1,2,3,4,5,6,7,8]$.

Ist[:-2]
|st[1:10:3]

Write the output that will be produced by the following code:

```
x = 10
y = 3
while x < 100 and y > -2:
    print(f"{x} & {y + x}")
    x *= 2
    y = y - 1
print("All done")
```

Find and describe the two bugs that would cause issues in this function and explain how you would fix each of them. You can assume the input will always be a list of numbers.

```
def double_if_not_eight(lst):
    output = list()
    for value in range(len(lst)):
        if value = 8:
            output.append(value)
        else:
            output.append(value*2)
    return output
```


## Long Answers:

Write a function swap that takes a list lst as a parameter and returns a new list with the first half of lst swapped with the second half. E.g. swap ( [ $1,2,3,4$ ]) would return [3, 4, 1, 2]. You can assume Ist will always have an even length.

Implement the following pseudocode:
Take in user integer input
Make a list with the integer 10 in it
While the input is not even
Add the input to the front and back of the list
Get a new integer from the user
Create a new csv file named "output.csv"
Add the list contents to the first line of the file

