CS100 Fall 2017

Name _____

CPADS Lab Activity #9

Program #1

What is the output of the program above?

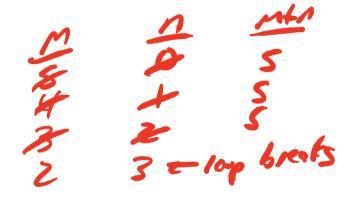
of intimite loop because

Nal new charges inside loop

in the loop because

Program #2

What is the output of the program above?



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Program #3

```
print ('Enter a series of numbers with values between 1 and 5 (inclusive)')
expected_vals = int(input('How must numbers would you like to input; '))
val = -1
total = 0
num_vals = 0

while ((val < 1 or val > 5) or num vals != expected vals):
    val = int(input( Enter a number: '))

if (val >= 1 and val <= 5):
    total = total + val
    num_vals = num_vals + 1

else:
    print('Invalid input value, try again')

print(total // expected_vals)</pre>
```

In English, describe what the program above does. What is the output of the program above?

Prompts the user to ento the number of velves
between 1-5 prey wish to ento

The it gets use import velves and only

Soms and counts the ones that one

Valid (between 1-5)

Finally it prints the integer average of

the valid values

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Program #4

```
# import a library that can generate random numbers
from random import randint
lowRange = 1
highRange = 5
# Create a random number between lowRange and highRange (inclusive)
randomNumber = randint(lowRange, highRange)
attemptNumber = 0
quessAgain= "yes"
quess = -1
print('Let\'s play a game.')
print('I\'m thinking of a number between', lowRange, 'and', highRange)
while quess != randomNumber and quessAgain!= "no":
    guess = int(input('Guess my number: '))
    attemptNumber = attemptNumber + 1;
    if guess != randomNumber:
        print('Sorry, that is not correct')
        guessAgain = input('Would you like to guess again? [yes/no]: ')
if quess == randomNumber:
    print('Yeah, you guessed correctly on attempt #', attemptNumber)
else:
    print('Quitter')
```

In English, describe what the program above does. Type the code into PyCharm to see how it works. When testing the code, experiment with different inputs. What happens if you supply a value less than 1? Greater than 5? What happens if you type **NO** (in capital letters) when prompted to guess again?

This is a gaessing game for a number between 1-5. The user is as ted for a new gross as larg as they have not goessed the convect value and have not said pury are finished playing (no). Each goess is countrel and the both number of attempts is displayed when the user gresses correctly for gresses outside 1-5, the program will simply count for gresses outside 1-5, the program will simply count it as an incorrect guess.

If the user actus NO, the good will continue since the check is only for exactly no (lowerse).