Quiz 4   Name_____
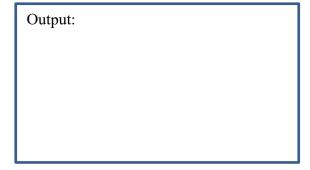
1. What would be printed on the screen when the following program is executed?

a. (3 points)

```
def f1(a):
    s = 0
    for i in range(1,a):
        s += f2(i)
        print (s)
    return s

def f2(n):
    if n == 3:
        return 2
    if n%2 == 0:
        return 5
    return 6

f1(4)
```

Output:

b. (2 points)

```
def f3(A):
    B = [1,2]
    for i in A:
        print (B)
        if i > 3 and i < 6:
            B = B + [i]
    return B

print (f3([2,4,6]))
```

Output:

2. Given the following function, give me a value for A, that will cause the function to return True (2 point)

```
def f4(A):
    if A == 2:
        return False
    if len(A) < 3:
        return False
    for i in range(len(A)):
        if A[i+1] == 0:
            return True
        return False

print (f4(_____))   # this should print True
```

3. (3 points) Finish the function given below. The input parameter s is a string. The function should count the number of vowels in the string s and then return that count. For example, countVowels("abcd") should return 1, countVowels("steel") should return 2, and countVowels("a computer") should return 4. You CANNOT use lists. The following characters are considered vowels in English:

a, e, i, o, u

```
def countVowels(s):
    # Add your code here
```