Lecture 3, CSci 127 Fall 2022	Name:					
	EmpID:					

1. The following illustrates usage of range function, which returns a sequence of numbers.

```
print("contents of range(5):")
1
   for i in range(5): \#do \ not \ forget : in \ the \ end
\mathbf{2}
       print(i) #print is a function, need to follow by (),
3
       \# parameter of print function is included inside the ().
4
5
   print("\ncontents of range(1, 5):") \#\n is new line character
6
   #visually it is like to start an empty line
7
   for i in range (1, 5): #cannot write 1,5 as 1:5, since range is a function and its
8
       parameters are separated by space
       print(i)
9
10
   print("\ncontents of range(1, 5, 2):") \#\n is new line character
11
   for i in range (1, 5, 2): #start from 1, ends BEFOFE 5, each time increased by 2.
12
       print(i)
13
14
   #challenge: count down from 5 to 0, decreased by 1 each time.
15
   print("\nCount down from 5 to 0 (Included)")
16
   for i in range(5, ?, -1): #What is the value of ?
17
       print(i)
18
```

- 2. Divide 10 pens among 3 students, each student need to get the same number of pens, how many pens does a student get? How to write a formula in python?
- 3. Divide 10 pens among 3 students, each students need to get the same number of pens, how many pen(s) is/are left? How to write a formula in python?

4. What is the output of the following code?

```
string = "hello, world"
1
2
   #print each letter of string, one in a line
3
   print("print each letter of string, one in a line")
4
   for ch in string:
\mathbf{5}
       print(ch)
6
7
   print("\nprint each letter of string, one in a line, using character indexed
8
       at string") \# \setminus n is a new charater, backslash \setminus before n changes the meaning of n, it
       is like to insert a new line. Visually it is an empty line.
   size = len(string)
9
   for i in range(size):
10
       print(string[i])
11
12
   print("\nprint the first 5 letters of string")
13
   print(string [0:5])
14
15
   print(string [0:5:2]) #string is a variable, cannot replace : by,
16
17
   #how to get a reverse string of the original string?
18
```

```
s = "FridaysSaturdaysSundays"
1
   num = s.count('s') #what happens if we use num = s.count(s)
\mathbf{2}
   print("There are", num, "fun days in a week.")
3
4
   days = s[:-1]. split ('s') \# What is s[:-1]?
5
                             #What is value of days?
6
   mess = davs[0]
7
   print("Two of them are", mess, days[-1])
8
9
   \mathrm{result}\ =\ "\,"
10
   for i in range(len(mess)): #what is len(mess)?
11
        if i > 2:
12
           result = result + mess[i]
13
14
   print("My favorite", result, "is Saturday")
15
```