**Section 002R**

**Part-1:**

Create a function named **divisionCounter** that takes two numbers as parameters. Your task is to find the number of iterations required by the first parameter to become zero if you keep dividing it with the second parameter. For example, if your first parameter is 444 and second is 4, your loop would iterate for 5 times till 444 finally becomes zero.

In first iteration: 444/4= 111

In second iteration: 111/4=27

In third iteration: 27/4=6

In fourth iteration: 6/4=4

In fifth iteration: 4/4=1

After this, your loop terminates. Once you have the number of iterations, make sure to return it too!

**Output:**

**A picture containing text

Description automatically generated**

**Code for my reference:**

def divisionCounter(i,n):

add=0

while(i>0):

i=i//n

add=add+1

return add

step=divisionCounter(444, 4)

print("Number of iterations:", step)

**Part-2:**

Which type of loop did you choose and why?

**Rubric:**

Function Header—5 pts

Loop condition—10 pts

Body of loop and function—5 pts

Return statement-- 5 pts

Function invocation-- 5 pts

Correct result—5 pts

Part-2—15 pts