

## 1) Assignment Description

Define and test a function `myRange` in the file named **testmyrange.py**. This function should behave like Python's standard `range` function, with the required and optional arguments, but it should return a `list`. **Do not use the `range` function in your implementation!** (Hints: Study Python's help on `range` to determine the names, positions, and what to do with your function's parameters (See item 2 below). Use a default value of `None` for the two optional parameters. If these parameters both equal `None`, then the function has been called with just the stop value. If just the third parameter equals `None`, then the function has been called with a start value as well. Thus, the first part of the function's code establishes what the values of the parameters are or should be. The rest of the code uses those values to build a list by counting up or down.)

## 2) Code

```
C:\Users\diana\Documents\GitLab\3DEV140\testmyrange.py
1 """
2 Author: Daniela Zamorano-Martinez
3 Date: 11/25/24
4 Assignment: Module 5 Practice Exercise 6-6
5 Returns as a list with a specific number range.
6 |
7 """
8
9 def myRange(start, stop= None, step =1):
10     #Starting the range
11     if stop is None:
12         stop=start
13         start = 0
14     #Stopping the vaule
15     if step ==0:
16         raise ValueError("Step can not be zero!")
17
18     result = []
19     #incrementration
20     if step>0:
21         while start< stop:
22             result.append(start)
23             start += step
24     else:
25         while start > stop:
26             result.append (start)
27             start += step
28
29     #returns the numbers in specified range
30     return result
31
32 if __name__ == "__main__":
33     print(myRange(9))
34     print(myRange(0))
35     print(myRange(20))
36     print(myRange(-5))
```

### 3) Test Cases (3)

```
32 if __name__ == "__main__":  
33     print(myRange(9))  
34     print(myRange(0))  
35     print(myRange(20))  
36     print(myRange(-5))
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL



```
PS C:\Users\dlaza> & E:/School/python.exe "c:/Users/dlaza/Documents/GitHub/SDev140/module 5 practice 6-6"  
[0, 1, 2, 3, 4, 5, 6, 7, 8]  
[0, 1, 2, 3, 4, 5, 6, 7, 8]  
[]  
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19]  
[]  
PS C:\Users\dlaza> 
```