

# CMSY 156 - Lab 8

**Please submit .py files as well screenshot of the output**

## **Problem 1** TelephoneTranslator

Many companies use telephone numbers like 555-GET-FOOD so the number is easier for their customers to remember. On a standard telephone, the alphabetic letters are mapped to numbers in the following fashion:

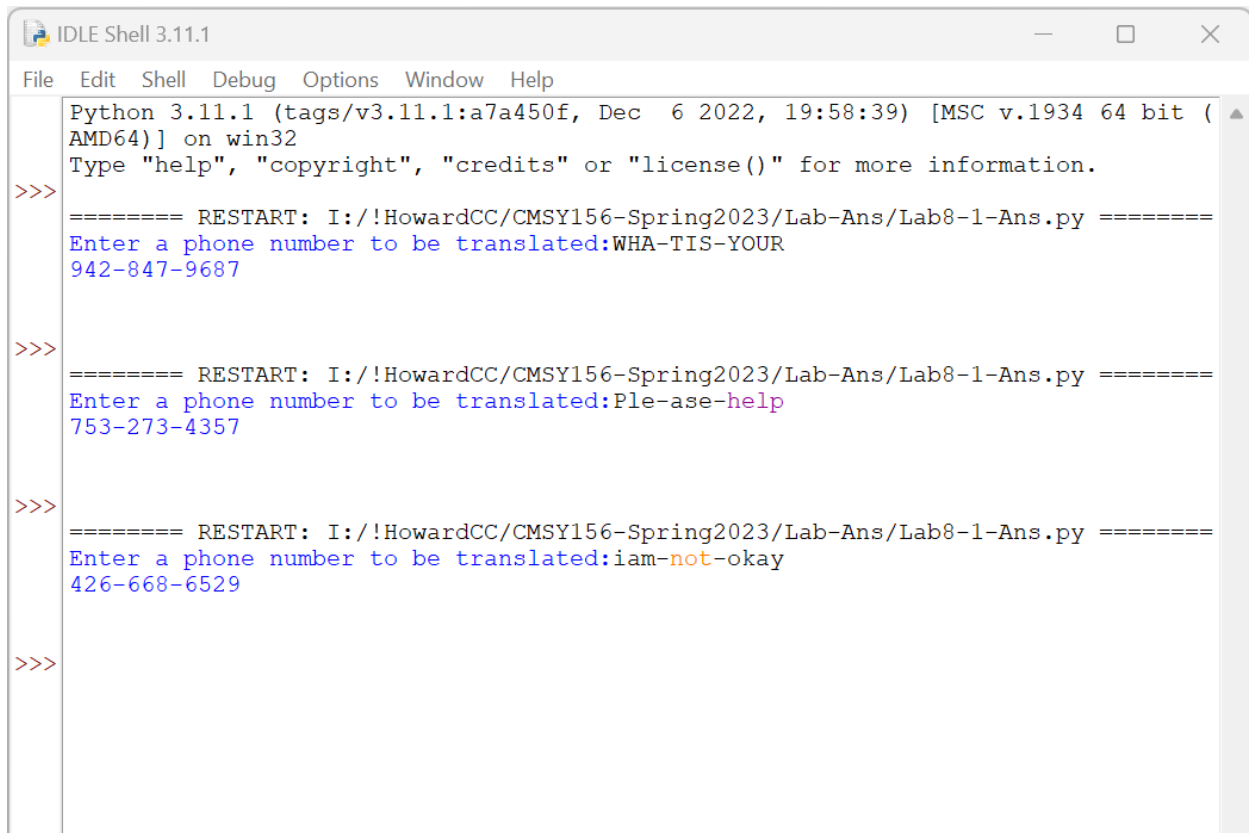
A, B, C: 2  
D, E, F: 3  
G, H, I: 4  
J, K, L: 5  
M, N, O: 6  
P, Q, R, S: 7  
T, U, V: 8  
W, X, Y, Z: 9

Write a program that asks the user to enter a 10-character telephone number in the format XXX-XXX-XXXX. The application should display the telephone number with any alphabetic characters that appeared in the original translated to their numeric equivalent.

## **Problem 2** SentenceCapitalizer

Write a program with a function that accepts a string as an argument and returns a copy of the string with the first character of each sentence capitalized. The program should let the user enter a string and then pass it to the function, printing out the modified string.

## Sample Screen Shots for Lab 8-2



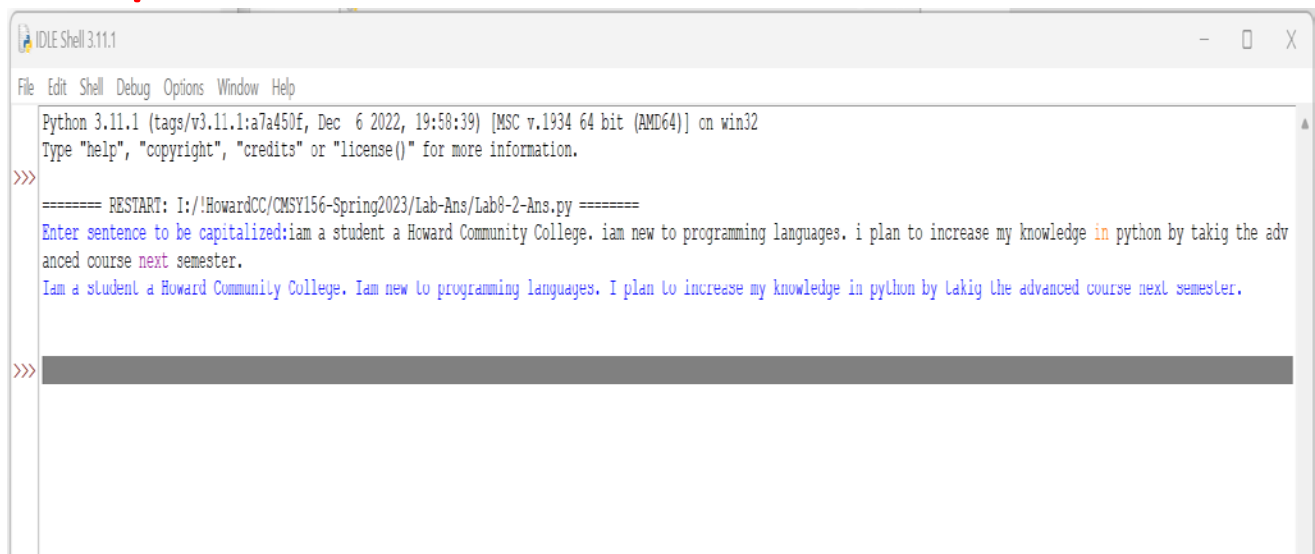
```
IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: I:/!HowardCC/CMSY156-Spring2023/Lab-Ans/Lab8-1-Ans.py =====
Enter a phone number to be translated:WHA-TIS-YOUR
942-847-9687

>>>
===== RESTART: I:/!HowardCC/CMSY156-Spring2023/Lab-Ans/Lab8-1-Ans.py =====
Enter a phone number to be translated:Ple-ase-help
753-273-4357

>>>
===== RESTART: I:/!HowardCC/CMSY156-Spring2023/Lab-Ans/Lab8-1-Ans.py =====
Enter a phone number to be translated:iam-not-okay
426-668-6529

>>>
```

## Sample Screen Shots for Lab 8-2



```
IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: I:/!HowardCC/CMSY156-Spring2023/Lab-Ans/Lab8-2-Ans.py =====
Enter sentence to be capitalized:iam a student a Howard Community College. iam new to programming languages. i plan to increase my knowledge in python by taking the advanced course next semester.
Iam a student a Howard Community College. Iam new to programming languages. I plan to increase my knowledge in python by taking the advanced course next semester.

>>>
```