**Take screenshots of the completed programming exam (python code and output in python shell), paste them into a word document and upload it. Please submit your assignment with the naming convention of Lastname\_Firstname\_Practice\_Programming\_Exam1.docx.**

**30 points**

**Q1.** Write a program that asks the user for the lengths of the sides of a rectangle. Then print

•The area and perimeter of the rectangle

•The length of the diagonal

Here is a sample dialog:

Enter the length: 4

Enter the width: 2

The area is 8.0

The perimeter is 12.0

The diagonal length is 4.47

**25 points**

**Q2.** Write a Python program to swap the first and last character of a single string with a length of 3 and prints the swapped words.

Here is a sample dialog:  
Please enter a word: tan  
nat

**35 points**

**Q3.** Write a program that reads in a string and prints whether it

•contains only letters.

•contains only uppercase letters.

•ends with a period.

**Use only string methods to check the conditions.**

Here is a sample dialog

Enter a string: Rogers

The string contains only letters.

Enter a string: IT IS WINTER NOW

All letters in the string are uppercase letters.

Enter a string: This is the last question of the exam.

The string ends with a period.

**10 points**

Organization of the code such as proper commenting out, meaningful variable names, following PEP 8 design, clean code, submitting the word document with properly pasted python code and output etc.