

In Class Assessment I – Python

Select three of the four problems. Write the code carefully on a sheet of paper.

Problem 1:

Write a function. When invoked, the function asks the user for a number. The function returns True if the number is > 0 and False otherwise.

Problem 2:

Write a function that takes as input a floating point number x . If x is either 1 or -1, the function prints out “Error” and returns None (`return None`). Otherwise, it returns the value of

$$\frac{1}{(x - 1)(x + 1)}.$$

Problem 3:

Write a function that takes a filename as input parameter. The function opens the file as a text file. It returns the number of white spaces “ ” in the file.

Problem 4:

Write a function that takes a string as its only parameter. The function returns a string that is like the input string but that has all consonants doubled and all white spaces and hyphens removed.