Requirements

# Problem 1

-ctype\_alpha will accept a user inputted string

-ctype\_alpha will validate alphabetical letters (A-Z and a-z)

-ctype\_alpha will return as either true or false

-The function will return true if all characters of the string meet the alphabetical requirements (A-Z, a-z)

-The function will return false if any character is not alphabetical

# Problem 2

-is\_numeric will accept a user inputted string made up of numeric characters (0-9) along with”.”(Decimal) and “+” and “-“

-is\_numeric will return as either true or false

-The function will return true if all characters of the string meet the numeric characters (0-9) along with”.”(Decimal) and “+” and “-“ values

-The function will return false if any character is not a numeric characters (0-9), ”.”(Decimal), “+” , and “-“

# Problem 3

-ctype\_alnum will accept user inputted string

-ctype\_alnum validates alphanumeric characters

-returns the value of the inputted character as well as indicates to the user that the string is invalid if all characters in string do not match numeric characters (0-9) or alphabetical characters (A-Z, a-z)

-returns the value of inputted character as well as indicates to the user the string is valid if all characters match the numeric characters (0-9) AND alphabetical characters (A-Z, a-z)

-Output displays to user the string inputted

Test Cases

# Problem 1

* + Parameter: “abc” Returns: True
  + Parameter: “123” Returns: False
  + Parameter: “a” Returns: True
  + Parameter: “AbC” Returns: True
  + Parameter “A-bc” Returns: False

# Problem 2

* + Parameter: “abc” Returns: False
  + Parameter: “123” Returns: True
  + Parameter: “1” Returns: True
  + Parameter: “+1” Returns: True
  + Parameter “1.-+” Returns: False
  + Parameter “1.349” Returns: True

# Problem 3

* + Parameter: “abc123” Returns: True
  + Parameter: “AbC123” Returns: True
  + Parameter: “a” Returns: True
  + Parameter: “wdFEiednw3r43feg3q4qfEFeq34fef34e” Returns: True
  + Parameter “1.0” Returns: False