Hunter Poole
CSCI 155 HW5, Problem 1

Problem recap skipped due to length of problem.

Three Step Analysis:

A. Take any character as input. Return the entered character and its ASCII value.
B. Determine if the entered character is upper case, lower case, 0-9, or other. Store that info.
C. Return the next two characters
D. Loop until # is entered. Then return a table for the count of each character type.

INPUT	**OUTPUT**	**EQUATIONS**
Any char	The same char	**do…while** (Ch != '#')
# to quit	Char's ASCII value	**if** (Ch != '#')
	Next two characters (from input char)	**if** (Character.isUpperCase(Ch)) Uppercase++ **else if** (Character.isLowerCase(Ch)) Lowercase++ **else if** (Character.isDigit(Ch)) Digit++ **else if** (Ch != '#') Other++ **end if**
	Table of counts - display quantity of each type of char entered	

E. Limits / Constraints:
    a. Can only take one character at a time
    b. Cannot handle whitespace or null values.
        i. Only functions for ASCII characters within typeable range, excluding the space bar.
        ii. 33 - 126 (!, ~)

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```
char Ch, NextCh, NextCh2
int Ch_Value, Uppercase = 0, Lowercase = 0, Digit = 0, Other = 0

do
        write “Please enter your character: “
        read Ch
        Ch_Value = Ch

        if (Ch != ‘#’)
                write (Ch + “ “ + Ch_Value)
                NextCh = Ch
                NextCh2 = ++NextCh
                write ((NextCh++) + “ “ + (++NextCh2))
        end if

        if (Character.isUpperCase(Ch))
                Uppercase++
        else if (Character.isLowerCase(Ch))
                Lowercase++
        else if (Character.isDigit(Ch))
                Digit++
        else if (Ch != ‘#’)
                Other++
        end if

while (Ch != ‘#’)
end do-while

write (“Number of uppercase: “ + Uppercase + “Number of lowercase: “ + Lowercase + “Numbers: “ +
Digit + “Number of other characters: “ + Other)
```