

3 Exercises

1. Write a program that uses a loop to read one word at a time until the word **done** is entered. The program should then report the number of words entered(not counting done). A sample run could look like this:

```
Enter words(to stop, type the word done):  
done  
no word entered.
```

```
Enter words(to stop, type the word done):  
One two three four fine  
always happy with done for sure  
You entered 8 words.
```

```
Enter words(to stop, type the word done):  
funny done  
You entered 1 word.
```

2. Write a program that reads input a word at a time until a lone **q** is entered. The program should then report the number of words that began with vowels, the number that began with consonants, and the number that fit neither of those categories. A sample run might look like this:

Hint: One approach is to use **isalpha(char)** to discriminate between words beginning with letters and those that don't.

```
Enter words(q to quit):
The 12 universities ocean ambled
quietly Example 15 meters of lawn. q
5 words begin with vowels.
4 words begin with constonats.
2 others
```

```
Enter words(q to quit):
Good morning, Mike!
Good morning, Alice!
q
1 word begins with vowels
5 words begin with constonats.
0 others
```

3. Write a program that asks user to input a string by keyboard, save the letters and blanks of the string to a file named f1.txt. Convert the lower case letters into the upper case letters and save to another file named f2.txt. Show the contents of f1.txt and f2.txt on the screen respectively.

Sample output:

```
Please input a string:Hi! I am Candy, 18 years old.  
  
The contents of f1.txt : Hi I am Candy  years old  
The contents of f2.txt : HI I AM CANDY  YEARS OLD
```