**Week 3 : programs**

**7.1** Write a program that prompts for a file name, then opens that file and reads through the file, and print the contents of the file in upper case. Use the file **words.txt** to produce the output below.

Explanation :

**# Use words.txt as the file name**

**fname = input("Enter file name: ")**

**fh = open(fname,'r')**

**for reading in fh :**

**y=reading.rstrip()**

**print(y.upper())**

**7.2** Write a program that prompts for a file name, then opens that file and reads through the file, looking for lines of the form:

X-DSPAM-Confidence: 0.8475

Count these lines and extract the floating point values from each of the lines and compute the average of those values and produce an output as shown below. Do not use the sum() function or a variable named sum in your solution.

Explanation:

**# Use the file name mbox-short.txt as the file name**

**fname = input("Enter file name: ")**

**fh = open(fname)**

**avg=0 # to calculate average**

**count=0 # to count the numbers**

**add=0 # addition of all the numbers**

**for line in fh:**

**if line.startswith("X-DSPAM-Confidence:") : # if the line starts with "X-DSPAM-Confidence:”**

**pos=line.find(':') # search the line until we get ":"**

**y=float(line[pos+1:]) # consider the whitespace and the number after ":" and covert it into float**

**count=count+1 # increment the count when a number is found**

**add=add+y # add all the numbers found**

**avg=add/count # calculate the average**

**print("Average spam confidence:",avg)**