Lab 5
1 test run for each question

Question 1

(Dict)Given a dictionary
grade={"A" : 8, "D" : 3, "B":15, "F" : 2, "C": 6}

Write python statement(s) to print items a. to e. Functions not required, use your own print statement strings:
a. All the keys
b. All the values
c. All the key and value pairs
d. All the key and value pairs in key order
e. The average value

Question 2: Tea Leaves Sales Report

1. Here is the sample of the text file (datafile) for the tea sales (tea.txt). The tea.txt file is provided for you on Canvas. Your program must read from this text file tea.txt that is provided.

```
Green Tea:8580.0:7201.25:8900.0
Earl Grey:10225.25:9025.0:9505.0
Ceylon:6700.1:5012.45:6011.0
Jasmine:9285.15:8276.1:8705.0
Mint Tea:7901.25:4267.0:7056.5
```

The above data reads as follows – tea_name:store1_Sales:store2_Sales:store3_Sales

The sample test run output displayed as follows(no commas required for the numbers in this output)

Test run 1

```
Ceylon        6700.10      5012.45      6011.00      17723.55
Earl Grey    10225.25      9025.00      9505.00      28755.25
Green Tea     8580.00      7201.25      8900.00      24681.25
Jasmine       9285.15      8276.10      8705.00      26266.25
Mint Tea      7901.25      4267.00      7056.50      19224.75
             42691.75     33781.80     40177.50
```

The last row is the store totals for all the kinds of tea leaves sold. The last column is the total sale for each kind of tea leaves sales. **Note that the tea names are sorted**.

a. Write a program to read in the data from tea.txt textfile and then print the sample test run as shown above.
b. You **must use dictionary, if a dictionary is not used as zero score will be assigned for this question**. You can also use list, tuples, sets if necessary.
c. Functions not required but better to use functions

Hints for Question 2:

This program has to do with reading text data from a file.

1. Read each line of the text file data into your program into a list
2. Process the list into a dictionary to store the tea name as key and it's corresponding sales values in a list.
3. Loop through the whole text file reading each line of text and repeating items 1 and 2 until you get a dictionary as in the example below.

{Green Tea: [8580.0:7201.25:8900.0], Earl Grey:[10225.25:9025.0:9505.0], …}

4. You can figure out how to calculate the total for each key's value lists using list manipulation
5. To sort the dict you can use

for var in sorted(dictName) :