1. **Implement a group_by_owners function that:**

   •Accepts a dictionary containing the file owner name for each file name.

   •Returns a dictionary containing a list of file names for each owner name, in any order.

For example, for dictionary {'Input.txt': 'Randy', 'Code.py': 'Stan', 'Output.txt': 'Randy'} the group_by_owners function should return {'Randy': ['Input.txt', 'Output.txt'], 'Stan': ['Code.py']}.

2. **A palindrome is a word that reads the same backward or forward.**

Write a function that checks if a given word is a palindrome. Character case should be ignored.

For example, is_palindrome("Deleveled") should return True as character case should be ignored, resulting in "deleveled", which is a palindrome since it reads the same backward and forward.

3. **What is the function to convert string to integer?**

4. **What are the supported data types in Python?**

5. **What is the difference between tuples and lists in Python?**

6. **How will you convert a string to a long in python?**

7. **How will you capitalizes first letter of string?**

8. **Explain Inheritance in Python with an example**.

9. **Write a one-liner that will count the number of capital letters in a file. Your code should work even if the file is too big to fit in memory.**

10. **Write your own function to sort the numbers in a given list.**

11. **Explain copy, shallow copy and deep copy. With examples.**

12. **Choose one from map, reduce, filter to solve the below problem and write code.**

   Problem1: Find the square of each number in the given list. List1 = [2,4,9,7,1,0]

   Problem2: From the given list of strings skills = ["c,linux,python,java","c,linux,python,oracle","c,linux,python,oracle","c,linux,python,oracle","python,java,oracle"], list the elements which is having "java".

   Problem1: Find the multiplication of all the given numbers of a given list [2,4,5,7,1.2,6,7]

13. **Which of the following is an invalid statement?**

a) abc = 1,000,000

b) a b c = 1000 2000 3000

c) a,b,c = 1000, 2000, 3000

d) a_b_c = 1,000,000

14. What is object oriented programming? Write in your own words

14. Write a Python program to count the number of lines in a text file.

15. What is Index Out Of Range Error?

16. Write a program to convert a list of integers to a comma separated string?

17. What is List Comprehension? Give an Example.

18. Write a function to take two file names (file1.txt and file2.txt), remove file2.txt lines from fil1.txt and write output file.