

## **Python exercise on File Objects**

**Folder\_name:** roll\_no\_file\_obj

**Scripts should be labelled as q1\_1.py, q2.py etc.**

Q1) The file “sun.txt” is actually a list of files corresponding to the “SUN database” scene recognition database, and lists the file directory hierarchy for the images. Write scripts for the following:

- 1) Total no. of lines in the file
- 2) Total ‘N’ no. of lines in the file, based on user input
- 3) Longest line in the file (there can be many such lines) and print it.
- 4) Write a script to simulate the copy() command
- 5) Reverse each line in the file and write to another file
- 6) Currently, the directory hierarchy is given together with the image names. Write a script to remove the directories and print the names only (“some\_name.jpg”) in another file
- 7) From (6), write a code to check if there are any duplicate names.

Q2) Two files “file\_A.txt” and “file\_B.txt” are given with a list of numbers. Write a script to find the common set of numbers in both files.

Q3) The marks for three students for three subjects are given in the file “marks.txt”. Calculate two sets of total marks, one for each student and one for each subject.

Q4) A list of names are given in the file “names.html”.

- 1) Extract the names and the ranks and print them.
- 2) Create a dictionary with keys as ranks and values as names