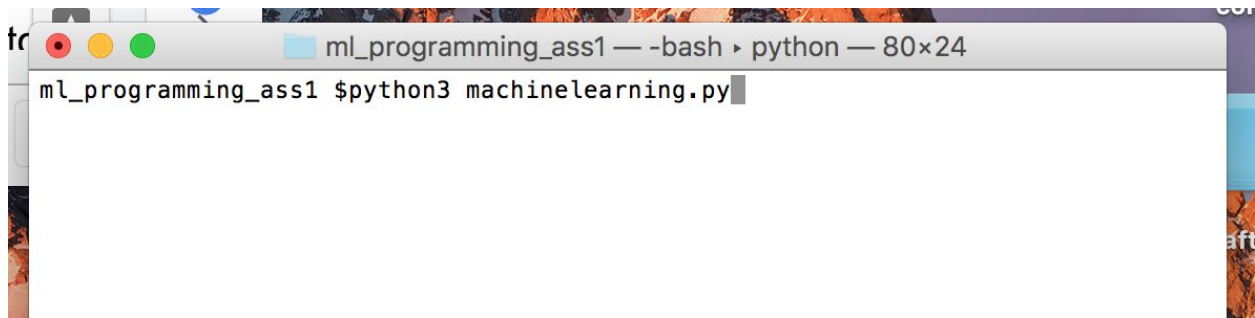


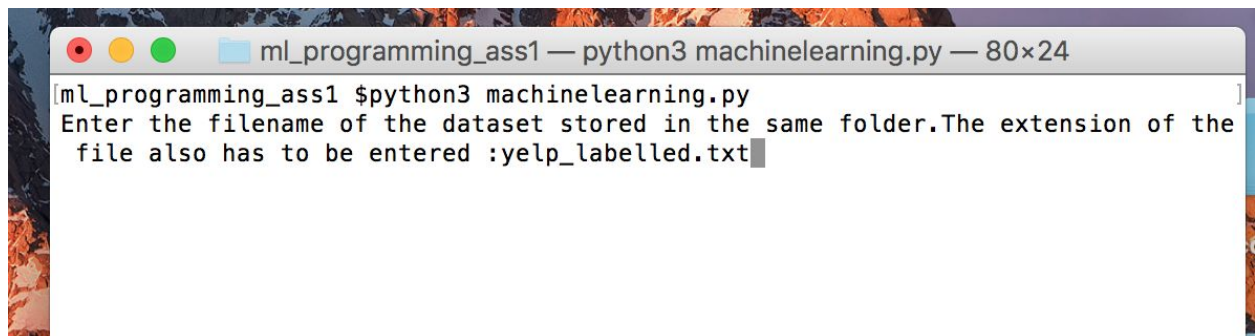
Instruction to run the code

- 1) The code has been split into different functions and all of it is inside the same .py file.
- 2) Running the code is a pretty simple process here. In order to run it from the terminal, we have to type the following:

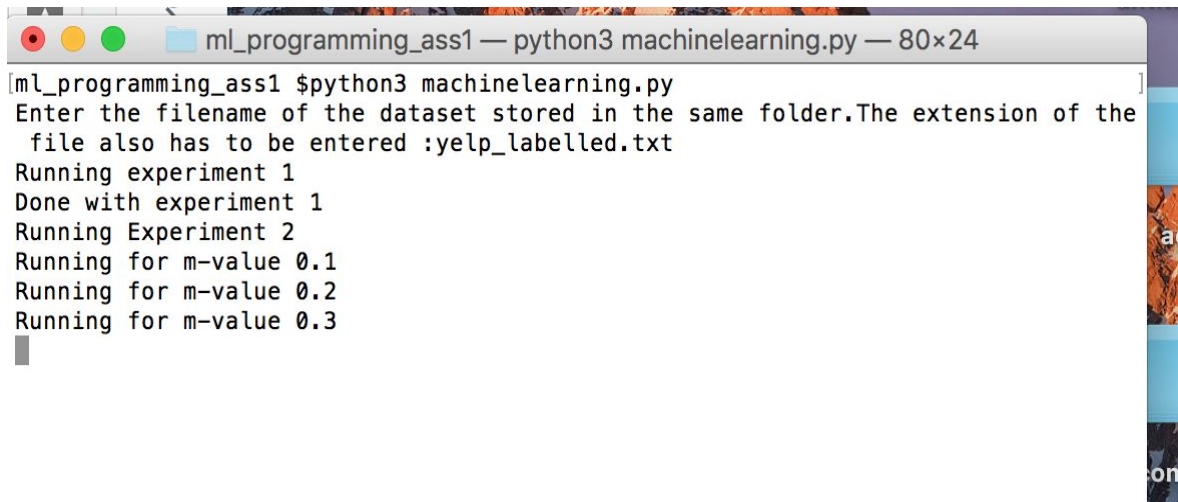
“python3 machinelearning.py”

A screenshot of a macOS terminal window. The title bar shows the folder name 'ml_programming_ass1' and the command 'python' with a size of '80x24'. The terminal content shows the command 'python3 machinelearning.py' being entered at the prompt 'ml_programming_ass1 \$'.

- 3) Next it will ask you for the filename of the text file that you want to input and we have to enter the name along with the extension.

A screenshot of a macOS terminal window. The title bar shows the folder name 'ml_programming_ass1' and the command 'python3 machinelearning.py' with a size of '80x24'. The terminal content shows the command 'python3 machinelearning.py' being entered at the prompt 'ml_programming_ass1 \$'. Below the command, a message is displayed: 'Enter the filename of the dataset stored in the same folder. The extension of the file also has to be entered :yelp_labelled.txt'. The cursor is positioned at the end of this message.

4) Now, the code should start running. It will keep on prompting on the terminal when it's done with experiment-1 and as it runs experiment-2 on different values of m as follows.

A screenshot of a terminal window titled "ml_programming_ass1 — python3 machinelearning.py — 80x24". The terminal shows the following output:

```
ml_programming_ass1 $python3 machinelearning.py  
Enter the filename of the dataset stored in the same folder. The extension of the  
file also has to be entered :yelp_labelled.txt  
Running experiment 1  
Done with experiment 1  
Running Experiment 2  
Running for m-value 0.1  
Running for m-value 0.2  
Running for m-value 0.3  
█
```

5) The program will take a little over a minute to run for each dataset and then it shall terminate with 4 different graphs as output.