Aayush Shah

D1 - 19BCE245

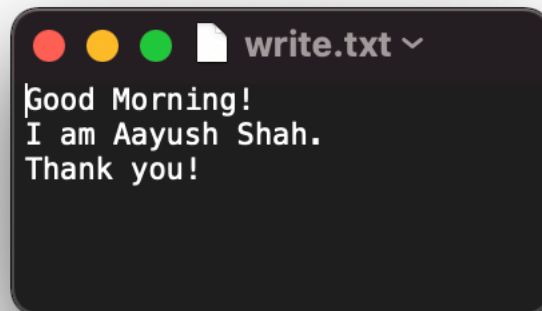23 February 2021

Practical 4

4a) Write a shell script to keep on accepting lines of text and write the text into a data file until the user inputs "end". The script should count the number of lines input and display them.

```
1. echo "Enter lines to add them into data.txt [write 'end' for
   exit] : "
2. read_line=""
3. count_lines=0
4.
5. rm -f write.txt #delete the file if it exists.
6.
7. while [ "$read_line" != "end" ]; do
8.     read read_line
9.     if [ "$read_line" != "end" ]; then
10.         echo $read_line >> write.txt
11.         count=$((count+1))
12.     fi
13. done
14.
15. printf "Total number of lines written : $count\nContent of
    the file : \n"
16. cat write.txt
```

OUTPUT :

```
Enter lines to add them into data.txt [write 'end' for exit] :
Good Morning!
I am Aayush Shah.
Thank you!
end
Total number of lines written : 3
Content of the file :
Good Morning!
I am Aayush Shah.
Thank you!
```

| ✓ Run Succeeded | Time 17 ms | Peak Memory 1.2M | Symbol ◇ | Tabs: 4 ◇ | Line 18, Column 1 |

Text file generated :

```
write.txt ⌄
Good Morning!
I am Aayush Shah.
Thank you!
```

4b) Write a shell script to print the reverse of an input number.

```
1. echo -n "Enter the number : "
2. read number
3. reverse_number=0
4. while [ $number -gt 0 ]; do
5.    reverse_number=$((reverse_number*10 + number%10))
6.    number=$((number/10))
7. done
8. echo "Reverse of the number is $reverse_number"
```

OUTPUT :

```
Enter the number : 12345
Reverse of the number is 54321
```

| ⊘ Run Succeeded | Time 6 ms | Peak Memory 1.1M | Symbol ⬦ | Tabs: 4 ⬦ | Line 12, Column 48 |

OUTPUT :