ISS Lab Activity -1

1. Complete the given tasks before the lab ends.
2. Plaigarism will be strictly penalized.
3. Submission is to be made on both github classroom platform and moodle.

Task 1

Write functions to calculate GCD and LCM of two numbers. Now, take two numbers A and B as input ans output their GCD and LCM using the functions. The input will be given along the script run command itself.

```
$ bash Task_1.sh 100 50
>GCD: 50
>LCM: 300
```

Task 2

Write one script `Task_2.sh` to do the following:

1. Create a new file named `output1.txt`, which contains the calender for this month. (Hint: Use **cal** command to get the calender.)
2. To the same file append today's date.
3. Now, append "ISS is cool" 100 times to the end of the file.
4. Display the contents of the file `output1.txt`.
5. Display the first 3 lines of the file.
6. Display the lines 6 to 15.
7. Display the number of lines in `output1.txt`, using piping.
8. Using echo command, write the string "I'm UG1" in `output1.txt`
9. Print the number of words in the file `output1.txt`.
10. Append the line "I'm studying ISS" in the same file.
11. Print the 4th column of the file `output1.txt`.
12. Print from column number 2 to 5 (both included) of the file `output1.txt`.
13. Print from the 3rd column, everything till the n-5th line of the file `output1.txt`.
14. Print the second and fourth word of every row from the file `output1.txt` using a single command (Hint: Space Delimiter).

```
Example: If your file contains:
        Wish you a very happy birthday!
        I have a class.
Output:
        you very
        have class.
```

Task 3

Write a script `Task_3.sh` that takes an IPv4 address as input and returns the same address in a binary format.

```
i/p: 192.168.1.1
o/p: 11000000 10101000 1 1
```

Task 4

Push all the files of the lab task to the github repository. The submission should include:

1. Task_1.sh
2. Task_2.sh
3. output1.txt
4. Task_3.sh