

# Assignment 4

1. Write a C program to display the following pattern:

```
*  
* *  
* * *  
* * * *
```

2. Write a C program to display the following pattern:

```
1  
2 2  
3 3 3  
4 4 4 4
```

3. Write a C program to display the following

pattern:

```
1  
1 2  
1 2 3  
1 2 3 4
```

4. Write a C program to display the following

pattern:

```
1  
2 3  
4 5 6  
7 8 9 10
```

5. Write a C program to display the following pattern:

1  
1 0  
1 0 1  
1 0 1 0

6. Write a C program to display the following pattern:

\* \* \* \*  
\* \* \*  
\* \*  
\*

7. Write a C program to display the following

pattern:

4 4 4 4  
3 3 3  
2 2  
1

8. Write a C program to display the following pattern:

4 3 2 1  
3 2 1  
2 1  
1

9. Write a C program to display the following pattern:

1 2 3 4  
1 2 3  
1 2  
1

10. Write a C program to add, subtract, multiply, divide 2 numbers using user defined functions.

11. Write a C program to display the sum of digits and product of digits of a number using user defined functions.

12. Write a C program to calculate the factorial of a number using user defined functions.
13. Write a C program to display all prime numbers within a given range using user defined function.