

## 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.