Lab Task Week 11

Note:

- Plagiarized tasks will be awarded zero marks.
- There will be deduction for late submission.
- Use meaningful variable names instead of a, b, c, x, y, z.
- Use proper indentation.
- Your programs should satisfy all the requirements mentioned in the description or discussed in lab.
- Grading will also be based on your lab performance, better to complete tasks in lab.

1. Write a program that asks a user to enter a no of his choice, and the program prints the multiplication table of that no. After that the program asks the user again whether he wants to enter another no to print the table. If the user enters Y or y, repeat the process else terminate the program.

   Note:

   The logic for printing the table should be in a function. Prototype for that function should be:

   void print_Table(int n);

   For table printing use for/while loop and for the rest of the logic use do while loop (for asking user to print another table until he presses N or n).

   Sample Outputs:

```
Enter a no: 5
5 x  1 = 5
5 x  2 = 10
5 x  3 = 15
5 x  4 = 20
5 x  5 = 25
5 x  6 = 30
5 x  7 = 35
5 x  8 = 40
5 x  9 = 45
5 x  10 = 50

Do you want to print another table? Y/N
Y
Enter a no: 2
2 x  1 = 2
2 x  2 = 4
2 x  3 = 6
2 x  4 = 8
2 x  5 = 10
2 x  6 = 12
2 x  7 = 14
2 x  8 = 16
2 x  9 = 18
2 x  10 = 20

Do you want to print another table? Y/N
N

Thank you for using our program
```

```
Enter a no: 5
5 x  1 = 5
5 x  2 = 10
5 x  3 = 15
5 x  4 = 20
5 x  5 = 25
5 x  6 = 30
5 x  7 = 35
5 x  8 = 40
5 x  9 = 45
5 x  10 = 50

Do you want to print another table? Y/N
*

Invalid Input
```

2. Write a program that takes two numbers from the user and displays all prime numbers between them.

   Sample Output:

```
Enter two no's:
5
15

Prime no's between 5 and 15 are:
5 7 11 13
```

3. Write a program that prints natural no's from 1 to 50 and according to user input limit the no of elements in a row.

   Sample Output:

```
This program will print natural no's from 1 to 50'
How many elements in a row? 5
01   02   03   04   05
06   07   08   09   10
11   12   13   14   15
16   17   18   19   20
21   22   23   24   25
26   27   28   29   30
31   32   33   34   35
36   37   38   39   40
41   42   43   44   45
46   47   48   49   50
```