Q.1. Write a program to check whether a number is prime or not.

Output:

```
D:\CDAC\C Programming\Assignments\Assignment 2>g++ "Q1.c++"

D:\CDAC\C Programming\Assignments\Assignment 2>a.exe
Enter a Number to check whether its Prime or not :
29
Number is Prime.
D:\CDAC\C Programming\Assignments\Assignment 2>a.exe
Enter a Number to check whether its Prime or not :
25
Number is not Prime.
D:\CDAC\C Programming\Assignments\Assignment 2>
```

Q.2. Write a program to generate first N prime numbers. Accept N from the user.

Output:

```
D:\CDAC\C Programming\Assignments\Assignment 2>g++ "Q2.c++"
Q2.c++: In function 'int noofprime(int)':
Q2.c++:23:1: warning: no return statement in function returning non-void [-Wreturn-type]
   23 | }
      | ^

D:\CDAC\C Programming\Assignments\Assignment 2>a.exe

Enter the Number : 10
2
3
5
7
11
13
17
19
23
29
```

Q.3. Write a program to generate the following pyramid.

Output:

```
D:\CDAC\C Programming\Assignments\Assignment 2>g++ "Q3.c++"

D:\CDAC\C Programming\Assignments\Assignment 2>a.exe
A
A B
A B C
A B C D
A B C D E
A B C D E F
A B C D E F G
A B C D E F G H
A B C D E F G H I
A B C D E F G H I J
A B C D E F G H I J K
A B C D E F G H I J K L
A B C D E F G H I J K L M
A B C D E F G H I J K L M N
A B C D E F G H I J K L M N O
A B C D E F G H I J K L M N O P
A B C D E F G H I J K L M N O P Q
A B C D E F G H I J K L M N O P Q R
A B C D E F G H I J K L M N O P Q R S
A B C D E F G H I J K L M N O P Q R S T
A B C D E F G H I J K L M N O P Q R S T U
A B C D E F G H I J K L M N O P Q R S T U V
A B C D E F G H I J K L M N O P Q R S T U V W
A B C D E F G H I J K L M N O P Q R S T U V W X
A B C D E F G H I J K L M N O P Q R S T U V W X Y
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
```

Q.4. Write a menu driven program to perform mathematical operations on two numbers.

Output:

```
D:\CDAC\C Programming\Assignments\Assignment 2>g++ "Q4.c++"

D:\CDAC\C Programming\Assignments\Assignment 2>a.exe
Menu:
1. Add
2. Subtract
3. Multiply
4. Divide
5. Exit
Enter your choice: 3
Enter two numbers: 24
23
Result: 552

Menu:
1. Add
2. Subtract
3. Multiply
4. Divide
5. Exit
Enter your choice: 5
Exiting the program.
```

Q.5. Generate the following pyramid , accept the level from the user as input.

Output:

```
D:\CDAC\C Programming\Assignments\Assignment 2>g++ "Q5.c++"

D:\CDAC\C Programming\Assignments\Assignment 2>a.exe
Enter the No.10
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9 10
```