## Course Code: CSE-1213 Course Title: Computer Programming Semester: Summer-2020 Assignment

1. Write a C program to check whether any year entered by the user is a leap year or not.

## **Leap Year Test**



- 2. Write a C program to read any month number in integer and display the number of days for this month.
- 3. Write a **C** program that will accept two integers from the user as a base number and an exponent, and calculate the **base** exponent as result by using a **for** loop.
- **4.** Write a **C** program to display the square of first n natural numbers and their sum.
- **5.** Write a **C** program to print the following pattern:

[The integer value here associated with N indicates the user input.]

**6.** Write a **C** program to print the following pattern like "pyramid" of digits:

[The integer value here associated with N indicates the user input.]

7. A prime number is a positive integer quantity that is evenly divisible (without a remainder) only by 1 or by itself. Write a **c** program to calculate and print the first n prime numbers.

- **8.** Perfect number is a positive number which sum of all positive divisors excluding that number is equal to that number. For example, 6 is a perfect number since divisors of 6 are 1, 2 and 3, and sum of its divisor is 1+2+3=6. Write a **C** program to check whether any positive integer number entered by the user is perfect or not.
- **9.** Arrays are very useful when lists of information need to be managed. Write a **C** program that reads the noonday temperature for each day of a month and then reports the month's average temperature, as well as its hottest and coolest days.
- **10.** Write a **C** program to find the second largest element in an array.