C++ Class Assignments for Section 'BC2' dt: 10 -12- 2022

1.	Write a C++ program to enter a number (less than 10,000) and print it in words as below. Input : 5728 Output: Five Thousand Seven Hundred Twenty Eight Input : 7509 Output : Seven Thousand Five Hundred Nine Input : 9018 Output: Nine Thousand Eighteen
2.	**Primorial Prime Number** : With respect of given positive number n, check if n is a primorial prime number or not. You have to print 'YES' if n is a primorial prime number otherwise print 'NO'. A Primorial prime is defined as a prime number of the form pN# + 1 or pN# – 1 , where pN# is the primorial of pN such that the product of first N prime numbers. **Example :** **Input** : n = 7 **Output** : YES 7 is Primorial prime of the form pN + 1 for N=2, Primorial is 2*3 = 6 and 6+1 =7. **Input**: n = 29 **Output** : YES 29 is Primorial prime of the form pN - 1 for N=3, Primorial is 2*3*5 = 30 and 30-1 = 29. In the following, the First few Primorial primes are displayed − 2, 3, 5, 7, 29, 31, 211, 2309, 2311, 30029. Write code to check if given n is a Primorial prime number or not.
3.	Write a program in C++ to display the multiplication table vertically from 1 to n. **Note : You should use only while loops.** Sample Output: Input the number upto: 5 Multiplication table from 1 to 5 1x1=1 2x1=2 3x1=3 4x1=4 5x1=5 1x2=2 2x2=4 3x2=6 4x2=8 5x2=10 1x3=3 2x3=6 3x3=9 4x3=12 5x3=15 1x4=4 2x4=8 3x4=12 4x4=16 5x4=20 1x5=5 2x5=10 3x5=15 4x5=20 5x5=25 1x6=6 2x6=12 3x6=18 4x6=24 5x6=30 1x7=7 2x7=14 3x7=21 4x7=28 5x7=35 1x8=8 2x8=16 3x8=24 4x8=32 5x8=40 1x9=9 2x9=18 3x9=27 4x9=36 5x9=45 1x10=10 2x10=20 3x10=30 4x10=40 5x10=50
4.	Write code to print Star Pattern of (**Your Roll number % 30**) For 'F' series roll numbers, follow the same sequence(i.e. for F18, the pattern is 18)