**Name: Session:**

**Programming II**

**Lab Exercise 5.17.2023**

1. Write a program to find HCF (Highest Common Factor) of two numbers.    
   Test Data :  
   Input 1st number for HCF: 24  
   Input 2nd number for HCF: 28  
   Expected Output :  
    HCF of 24 and 28 is : 4
2. Write a program to find out the sum of in Arithmetic Progression series.   
   Test Data :  
   Input the starting number of the A.P. series: 1  
   Input the number of items for the A.P. series: 10  
   Input the common difference of A.P. series: 4  
   Expected Output :  
    The Sum of the A.P. series are :  
    1 + 5 + 9 + 13 + 17 + 21 + 25 + 29 + 33 + 37 = 190
3. Write a program to find the sum of Geometric Progression series.   
   Test Data :  
   Input the first number of the G.P. series: 1  
   Input the number or terms in the G.P. series: 5  
   Input the common ratio of G.P. series: 2  
   Expected Output :  
    The numbers for the G.P. series:  
    1 2 4 8 16  
    The sum of the G.P. series : 31
4. Write a program to check whether a number can be expressed as sum of two prime numbers.    
   Test Data :  
   Input a positive integer: 16  
   Expected Output :  
    16 = 3 + 13  
    16 = 5 + 11

16 = 13 + 3  
 16 = 11 + 5