1) Write a program to find whether a given year is a leap year or not. (if…else…)

2) Write a program to calculate the roots of a quadratic equation. (if…elif…else)

3) Write a program to calculate the sum of numbers from m to n. (while)

4) Write a program to read the numbers until -1 is encountered. Also count the negative, positive and zeros entered by the user. (while and if…elif…else)

5) Write a program to enter a decimal number and convert it into a binary equivalent. (while)

6) try for the reverse of program 5 (while)

7) Write a program to calculate GCD of two numbers. (if…else and while)

8) Write a program to find out whether a given number is prime or composite. (for and if..else)

9) Write a program to sum the series: (for)

(i) 1+1/2+1/3+….+1/n

(ii) 1/1^2+1/2^2+1/3^2+….+1/n^2

10) Write a program to calculate square root of any number less than 1000 and not equal to and less than 0. (use break if number greater than 1000 and continue if number less than 0)