

Week 4 (4.2.2022)

1. Write a function to convert any given year into its roman equivalent. Use these roman equivalents for decimal numbers: 1-I, 5-V, 10-X, 50-L, 100-C, 500-D, 1000-M
Example:
Roman equivalent of 1988 is MDCCCCLXXXVIII
2. A positive integer is entered through the keyboard. Write a function to obtain the prime factors of this number.
Example: prime factors of 24 are 2,2,2 and 3
3. Write a program and the following functions to compute the average rainfall for the year. Use an array to store pointers to the first day of each month and another array to store the number of days in each month.
 - a. A function to input the average rainfall data of each day of the year into a one dimensional array.
 - b. A function to compute the average rainfall for the year or any month.
 - c. A function to output the average rainfall for each month and the yearly average rainfall.
4. Write a program and the following functions to compute the average value for the following data values stored in a two dimensional array.
 - a. A function to input the data into a two dimensional array.
 - b. A function to compute the row averages and store them in a one dimensional array.
 - c. A function to compute the column averages and store them in a one dimensional array.
 - d. A function to compute the average of all the values in the array.
 - e. A function to output the array, row averages, column averages, and the overall average.