- (a) Write a function to calculate the factorial value of any integer entered through the keyboard.
- (b) Write a function power (a, b), to calculate the value of a raised to b.
- (c) Write a general-purpose 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. Roman equivalent of 1525 is mdxxv.

- (d) Any year is entered through the keyboard. Write a function to determine whether the year is a leap year or not.
- (e) A positive integer is entered through the keyboard. Write a function to obtain the prime factors of this number.

For example, prime factors of 24 are 2, 2, 2 and 3, whereas prime factors of 35 are 5 and 7.