1. Write a function to calculate the **factorial** value of any integer entered through the keyboard.

2. Write a function **power(a,b)** to calculate the value of **a** raised to **b**.

3. Write a function to calculate **LCM** of two numbers.

4. Write a function to calculate **GCD** of two numbers.

5. Any year is entered through the keyboard. Write a function to determine whether the year is a **leap year** or not.

6. 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.

7. Write a function which receives a **float** and an **int** from **main()**, finds the product of these two and returns the product which is printed through **main()**.