Lab 5 (Practice)

Function

Question-1.

Write a program including a function which transfer a decimal double number to a binary double number and print out the binary double number. For example, the input parameter of the function is 12.25, the print result of the function is supposed to be 1100.01. The given decimal double number could be transferred into limited digits binary number, don't worry.

Expected Outcomes:

Example 1
Enter the decimal double number: 7.5625 The corresponding binary double is: 111.1001
Example 2
Enter the decimal double number: 27.640625 The corresponding binary double is: 11011.101001
Example 3
Enter the decimal double number: 120.21875 The corresponding binary double is: 1111000.00111

Question-2.

Write a program including a function called dateOf2017(char date[5]). In this function, the parameter is a char array referring to the actual date. The input is like "09-30", "01-05". First read the input chars in the main() function and store them in a char array. Then call the function dateOf2017(), and output this date in year 2017 is which day in one week.

Hint: Given that 2017-01-01 is Sunday. Calculate the date difference with the first day of 2017, and then get the weekday of the date according to the given info.

Expected Outcomes:

Example 1
Enter the date in 2017: 09-30 2017-09-30 is Saturday
Example 2
Enter the date in 2017: 08-31 2017-08-31 is Thursday
Example 3
Enter the date in 2017: 01-02 2017-01-02 is Monday