## ESC101: Fundamental of Computing

## Lab 2: Wednesday

1. Write a C program to check whether the given 3 sides form a triangle or not.
2. Write a C program to calculate and display the combined resistance when the three resistors R1, R2, R3 are connected in parallel. Your program should produce the display:

The combined resistance, in ohms, is $\qquad$
where the underlined spaces are to be replaced by the value of the combined resistance computed by the program.
[20]
3. Write a program to input the number of days and print them in months, week, and day format. Assume that a month contains 4 weeks and 1 week contain 7 days.

For eg:

$$
\begin{equation*}
121=4 \text { months, } 1 \text { Week, } 2 \text { Days } \tag{20}
\end{equation*}
$$

4. A ball is thrown with a velocity of $\mathbf{v} \mathrm{m} / \mathrm{s}$ making an angle of $30^{\circ}$ with the ground. Calculate

the range of the projectile and the maximum height attained by it. Print your answers correct to 3 decimal places. Assume $g=9.807 \mathrm{~m} / \mathrm{s}^{2}$
