Algorithm of Lab sheet #1

Q1) Write a c program that calculate body mass index based on the formula:

$$BMI= \frac{weight in killograms}{ hight in meters^{2}}$$

**Hint**: your result should be shown in 5 digits of decimal part.

Algorithm:

1. Read the **weight** and **height** and save them in double variables.
2. Calculate the **Bmi (**save it in double variable) using the formula: bmi= weight/(height\*height)
3. Output the **Bmi** formatted (%.5f)

Q2) Write a c program that prompts the user to input the elapsed time for an event in seconds. Then the program outputs the elapsed time in hours, minutes, and seconds.

Algorithm:

1. Read **elapsed\_time** and save it in variable of type int.
2. Calculate **Hour** using formula: elapsed\_time / 3600 and save it in variable of type int.
3. Calculate **Minute** using formula: (elapsed\_time % 3600)/60 and save it in variable of type int.
4. Calculate **Second** using formula: (elapsed\_time % 3600)%60 and save it in variable of type int.
5. Output **Hours, Minute** and **Second**