BIRZEIT UNIVERSITY

Computer Science Department

COMP1310

Assignment # 3 ***Due Date: Saturday 11/12/2021(11:59 pm) on Ritaj***

Notes:

1. The assignment should be submitted on the due date to message called **Assignmen3 submission on Ritaj , you should submit main.c file.** ***(Late Assignments will not be accepted for any reason and submission outside the message will not be accepted).***
2. The assignments are *individual* effort and copying the assignment will be treated as a cheating attempt, which may lead to *FAILING* the course.

Assuming the following:

1. The distance from the center of the earth to the center of the moon is ***343711 km as shown in the figure below.***.
2. The moon's orbit around the earth is completely circular.
3. The moon takes one whole month to finish a complete rotation around the earth.

Write a C program that ***finds and prints*** the ***distance*** and ***speed*** explained below using the following functions:

1. Function called ***dist_thous_yrs*** that receives the distance from the center of the earth to the center of the moon and returns the distance (**in km**) the moon covers orbiting around the earth for a ***thousand*** consecutive years.
2. Function called ***day_speed*** that receives the distance resulting from the first function (***dist_thous_yrs***) and returns the speed (**in km/sec**) needed to cover the same distance in a single day.