

ANKARA UNIVERSITY

COM1002

Spring 2020-21 Term

LAB1 Quiz

---

**Date: 12/03/2021**

**Duration: 60 minutes**

---

An object is released from a platform to free fall. Assume that the **velocity** at the time of hitting to the ground is provided to the program as an input, write a C program which computes and prints the **height** of the platform that the object is released from. The computed **height** should be printed with 2 digit precision after the decimal point (See the hint given below).

Related physics formulas:

$$\text{height} = (1/2)gt^2$$

$$\text{velocity} = gt$$

$$g = 10 \text{ m/s}^2$$

**I/O Format:**

**Input/Output source:** Standard input/output

**Input format:** <velocity>

**Output format:**<height> m\n

**Hint:** %.2f format specifier prints 2 digit precision for floating point numbers

Please, PAY ATTENTION TO THE I/O FORMAT!

| Sample input | Sample Output    |
|--------------|------------------|
| 40           | 80.00 m          |
| 184.25       | 1697.40 m        |
| 0            | 0.00 m           |
| 9.625e5      | 46320312320.00 m |