

COSC 1336 – Fundamentals of Programming Project Assignment #5 - Distance Traveled

Overview

The distance a vehicle travels can be calculated using the formula:

$$\text{distance} = \text{speed} \times \text{time}$$

For example, if a train travels at 40 miles per hour for 3 hours, the total distance traveled is 120 miles.

Task

Write a Python program that asks the user to input:

- The speed of a vehicle (in miles per hour)
- The number of hours it has traveled

The program should **display the distance traveled at the end of each hour**.

Requirements

- All inputs must be **positive integers**. Negative or zero values should be rejected with an appropriate message and the user should be prompted again.
- The program must use **functions**. At a minimum, the following functions are required:
 - `getIntegerData()` – Prompts the user and validates the entry of a positive integer.
 - `main()` – Coordinates the program's main flow.

Optional:

You are encouraged to define **additional functions** to improve code readability and organization.

Reminders

- Ensure all user inputs are validated.
- Use meaningful variable names and professional programming style.
- Comment your code, especially at the beginning of the program and before each function.

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Sample Output
(User entry is in RED)

Project #5
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Driver's Entry

What is the speed of the vehicle in mph: **40**
How many hours has it traveled? **3**

Summary: Distance Traveled

Hour Distance Traveled (miles)

1	40
2	80
3	120

End of Project 5