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// File: fallMoon.cpp
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/* This program computes the falling distance and velocity on the moon*/

#include <iostream>
using namespace std;

int main()
{
    double time;      //time in seconds
    double g = 1.6;   //meters per second^2
    double velocity;  //meters per second
    double distance;  //distance in meters

    cout << "Enter the time: ";
    cin  >> time;

    velocity = g * time;
    cout << "After " << time << " seconds, " << "the velocity on the moon is "
    << velocity << " meters per second." << endl;

    distance = 0.5 * velocity * time;
    cout << "After " << time << " seconds, "
    << "the falling distance on the moon is " << distance << " meters."
    << endl;

    return (0);
}

```