Exercises (Optional)

1.1 Write a program that (i) asks for the radius of a sphere in feet and (ii) prints the volume of the sphere in cubic inches.

1.2 Write a program that (i) asks for 4 integers, (ii) calculates the remainder of the first two and the last two, and (iii) prints the difference of the remainders multiplied by the first two integers and divided by the last two integers.

1.3 The Moon’s gravity is about 17 percent of the Earth’s gravity. Write a program that (i) asks for the weight of an object here on Earth (any object you like), and (ii) prints the weight of this object on the Moon. In the output use text to explain what the number means (e.g., “If the weight of this object is ... on the Earth, then its weight on the Moon would be ... ” ).