

IT210 Business Applications with C++
Program Assignment 1

1. Write a program that accepts as input the mass, in grams, and density, in grams per cubic centimeters, and outputs the volume of the objects using the formula: ***volume = mass/density***. Format your output to two decimal places
2. Interest on a credit card's unpaid balance is calculated using the average daily balance. Suppose that ***netBalance*** is the balance shown in the bill, ***payment*** is the payment made, ***d1*** is the number of days in the billing cycle, and ***d2*** is the number of days payment is made before billing cycle. Then the average daily balance is :

$$\text{averageDailyBalance} = (\text{netBalance} * d1 - \text{payment} * d2) / d1$$

If the interest rate per month as a fraction is $APR / (12 * 100)$ where ***APR*** is the Annual Percentage Rate, then the interest on the unpaid balance is:

$$\text{interest} = \text{averageDailyBalance} * APR / (12 * 100)$$

Write a program that accepts as input your first and last name, the credit card number, ***netBalance***, ***payment***, ***d1***, ***d2***, and ***APR***, and outputs the ***interest***.

Your program outputs must be similar or better than the screenshots included in the assignment