Programming assignment 8

Text

Description automatically generated

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#include <stdio.h>

#include <string.h>

float volume(int length, int width, int height) // declaring functions that can be reused

{

return(0.0f);

}

float mass(volume); // mass is calculated using volume

float numBarrels(volume); // number of barrels calculated using volume

void main()

{

float numBarrel; // initialise varibales

float mass;

float volume;

int length = 8; // last 3 digits of student ID

int width = 2;

int height = 4;

volume = length \* width \* height; // formula for volume

printf("Volume: %0.2f\n", volume);

mass = volume \* 1000; // formula for mass

printf("Mass of the water: %0.2f \n", mass);

numBarrel = volume / 0.48; // formula for calculates number of barrels

printf("Numer of barrels %0.0f \n", numBarrel); // rounds down to amount of full barrels

}