Assignment Week 7 CT103

C Programming

Submission:

REMEMBER: All files MUST be submitted via Blackboard

before you leave the lab (even if you don't get it working!)

You <u>must</u> be marked present by the lab tutor, and they <u>must</u> see your finished program before you leave

USE CORRECT FILE NAME AS PER INSTRUCTIONS

The tutors are there to help you - don't hesitate to ask for help

Assignment

- The user can enter the length and width of a room in either feet&inches or metres.
- The program calculates area from the input dimensions
- If the user enters feet&inches, the program will also calculate the area in square metres
- You <u>must</u> write and use the following functions:
 - float squareFeet (int lengthFeet, int widthFeet, int lengthInches, int widthInches);
 - float feetAndInchesToMetres (int feet, int inches);
 - float squareMetres (float width, float length);
- To read in the dimensions input by the user you <u>must</u> use the functions:
 - gets
 - sscanf you probably won't have seen this function before
 - There is an example on the next page to help you get started using sscanf
- When you want to print a quote mark in C, you need to precede it with a \
 - E.g.:
 - printf("Printing quotation mark \" ");

```
#include "stdafx.h"
#include <stdio.h>
void main()
char line[81];
char c1,c2,c3,c4,c5;
float width,length,height;
float volume;
puts ("Enter dimensions.");
puts ("Example: 34.4x56.7x12.0");
fflush(stdin);
gets (line);
sscanf (line, "%f%c%f%c%f", &width, &c1, &length, &c2, &height);
volume = width*length*height;
printf ("Volume= %.2f \n", volume);
```

Sample input / output

