Final Project   CS1021

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Introduction:

For our project, we wrote a Body Mass Index (BMI) calculator and 2 conversion calculators to help the user enter the correct inputs in the BMI function. Knowing your BMI is a good way to gauge whether your weight is in healthy proportion to your height. It is important to know about your BMI because it can help you determine any health risks you may face if it's outside of the healthy range.

Functions details

- Message function

We started by this function to give the user a brief description of the BMI calculator.

- inPound function

This function is for converting weight or mass measurements from kilograms (kg) to pounds (lbs). It will ask the user to Input the weight in kilograms and it will automatically convert it to inches by multiplying it by 2.20462262185 and display the result.

- inInches function

This function is for converting height from CM to inches. It will ask the user to Input the Height in CM and it will automatically convert it to inches by multiplying it by 2.54 and display the result.

- BMI function

Body mass index (BMI) function measures body fat based on height and weight that applies to adult men and women. It is widely used as a general indicator of whether a person has a healthy body weight for their height. The function requires the user to enter the weight in pounds and enter the height in inches and execute this operation (weight in pounds * 703 / height * height) to get his body mass index.

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Execute:

```
deema@deema-VirtualBox:~/cs1021/project3$ nasm -f elf64 bmiCalc.asm  -o bmiCalc.o
deema@deema-VirtualBox:~/cs1021/project3$ gcc -no-pie bmiCalc.c bmiCalc.o -o project
deema@deema-VirtualBox:~/cs1021/project3$ ./project
-----------------Welcome to our BMI calculator!----------------

 Knowing your BMI is a good way to gauge whether your weight
 is in healthy proportion to your height. It is important to
 know about your BMI because it can help you to determine any
 health risks you may face if it's outside of the healthy range.

 Enter your weight in kg: 41
Your weight in pounds:
90.389527

Enter youe heigh in CM: 151
Your heigh in Inches:
59.448819

Enter your weight in Pound: 90.389527
Enter your height in Inches: 59.448819
Your BMI is:
17.979888
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deema@deema-VirtualBox:~/cs1021/project3$ 
```