The Goal of this program is:

- Take the Users name, height, and weight
- Calculates the Users Body Mass Index (BMI), and tells the User whether they are underweight, normal weight, overweight, obese, or extremely obese..

```
# BMI Analyzer
                                                                                                   (Global Scope)
             #include <iostream>
          v int main()
                  std::cout << "This is a BMI Analyzer\n";</pre>
                  std::cout << "What is your name?\n";
                  std::string name;
                  std::cin >> name;
                  std::cout << "Are you entering your height as feet/inches or centimeters, " << name << "? \n";
                 std::string FeetCenti;
                  std::cin >> FeetCenti;
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                 int h1;
                  int h2:
                  int w1
                  int w2;
                  if (FeetCenti == "feet" || FeetCenti == "inches" || FeetCenti == "ft") {
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                      std::cout << "\nEnter your height in feet: ";</pre>
                     std::cin >> h1;
                  } else if (FeetCenti == "centimeters" || FeetCenti == "cm") {
                      std::cout << "\nEnter your height in centimeters: ";</pre>
                      std::cin >> h2;
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                     std::cout << "\nThat won't work. ";
                     return 0;
                  std::cout << "Are you entering your weight as Kilograms or pounds? ";</pre>
                  std::string kilolb;
                  std::cin >> kilolb;
                  if (kilolb == "Kilograms" || kilolb == "kg" || kilolb == "kgs") {
                      std::cout << "\nEnter your weight in kilograms: ";</pre>
                      std::cin >> w1;
                  } else if (kilolb == "lb" || kilolb == "pounds" || kilolb == "lbs") {
                      std::cout << "\nEnter your weight in pounds: ";</pre>
                  } else {
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                     std::cout << "\nThat won't work. ";
                      return 0;
```

I got this so far, on my own but now I am trying to figure out how to make it so the User can put in their exact height (to remove variances of 5 ft 10 or 5 feet 10

inches, 5'10 etc). I changed the prompt and asked for the **feet** and **inches** separately so they are two different inputs. Next I did everything else there and I thought about doing a ft/inches into cm converter so the math can be done easier.

```
#include <iostream>
    std::cout << "This is a BMI Analyzer\n";
std::cout << "What is your name?\n";
std::string name;
std::cin >> name;
    std::cout << "Are you entering your height as feet/inches or centimeters, " << name << "? \n"; std::string FeetCenti; std::cin >> FeetCenti;
    int h1; //height feet inputted
int h2; //height inches inputted
double h3; //height in cm
double meight1;
    int w3;
double h3Meters;
     if (FeetCenti == "feet" || FeetCenti == "inches" || FeetCenti == "ft") {
         std::cout << "\nEnter your height, what are the feet?: ";
std::cin >> h1;
std::cout << "\nEnter the inches: ";
std::cin >> h2;
double height1 = h1 * 30.48;
         double height2 = h2 * 2.54;
double h3 = h1 + h2;
//Will convert this to cm
          double h3Meters = h3 / 100.0;
    | else if (FeetCenti == "centimeters" || FeetCenti == "cm") {
        std::cout << "\nEnter your height in centimeters: ";
std::cin >> h3;
         double h3Meters = h3 / 100.0;
    } else {
         std::cout << "\nThat won't work. ";
    std::cout << "Are you entering your weight as Kilograms or pounds? ";
    if (kilolb == "Kilograms" || kilolb == "kgs" || kilolb == "kgs") {
          std::cout << "\nEnter your weight in kilograms: ";
std::cin >> w2;
     | else if (kilolb == "lb" || kilolb == "pounds" || kilolb == "lbs") {
          //Will convert this into kg
std::cout << "\nEnter your weight in pounds: ";
          std::cin >> w2;
double weight1 = w2 * 0.4536;
          std::cout << "\nThat won't work. ";
         return 0:
     int bodyMassIndex = w2 / h3Meters;
std::cout << name << ", your BMI (Body Mass Index) is " << bodyMassIndex << "\n";
```

I now am here, and have to clean up my work a bit. I had to add and change things so I have some data types that are not initialized or set to anything.

```
#include <iostream>
       v int main()
              std::cout << "This is a BMI Analyzer\n";
std::cout << "What is your name?\n";</pre>
               std::string name;
               std::cin >> name:
               std::cout << "Are you entering your height as feet/inches or centimeters, " << name << "? \n";
               std::string FeetCenti;
std::cin >> FeetCenti;
               int h2; //height inches inputted
double h3; //height in cm
double weight1;
               int w1; //
double h3Meters;
               double height1;
double height2;
               if (FeetCenti == "feet" || FeetCenti == "inches" || FeetCenti == "ft") {
                    std::cin >> h1;
std::cout << "\nEnter the inches: ";
                    std::cin >> h2;
height1 = h1 * 30.48;
                   height2 = h2 * 2.54 ;
h3 = height1 + height2;
                    h3Meters = h3 / 100.0;
               | else if (FeetCenti == "centimeters" || FeetCenti == "cm") {
                   std::cout << "\nEnter your height in centimeters: ";
std::cin >> h3;
                    h3Meters = h3 / 100.0;
               } else {
                    return θ;
               std::cout << "Are you entering your weight as Kilograms or pounds? ";
               if (kilolb == "Kilograms" || kilolb == "kg" || kilolb == "kgs") {
                    std::cout << "\nEnter your weight in kilograms: ";
                    std::cin >> w1:
               } else if (kilolb == "lb" || kilolb == "pounds" || kilolb == "lbs") {
                    //Will convert this into kg
std::cout << "\nEnter your weight in pounds: ";
                    std::cin >> w1;
weight1 = w1 * 0.4536;
               double bodyMassIndex;
bodyMassIndex = m1 / (h3Meters * h3Meters);
std::cout << name << *, your BMI (Body Mass Index) is * << bodyMassIndex << *\n*;</pre>
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```

I changed some things around and rebuilt it, now it works fine. Next I have to add the underweight or overweight range.