```
# This lab will be a BMI (body-mass index) calculator


def mainheadings():
  print('    ');
  print('     This is a BMI Calculator, if you are under 18.5, you are
underweight.');
  print('     If you are at 25, you are a perfect weight. If you are above
25, you are overweight.');
  print('\n');
def main():
  mainheadings();
  name = input('Please enter your name:\n');
  height_inches = input('Please enter height in inches:\n');
  weight_pounds= input('Please enter your weight in pounds:\n');
  print('    ');
  print(bmi_calculator(name, height_inches, weight_pounds));
  print('   ');

def bmi_calculator(name, height_inches, weight_pounds): # function
'bmi_calculator' is defined with three different variables
    weight_pounds= int(weight_pounds);
    height_inches= int(height_inches);

    bmi= float(weight_pounds/(height_inches * height_inches)* 703); # BMI
is given the formula to actually solve it
    print(bmi); # print the BMI value
    if bmi <= 18.5: # if the BMI is LOWER than 25, then the person is
underweight
        return name + " is underweight"; # return the name of the person +
the 'not overweight' string type
    elif (bmi <=24.9):
        return name + " is normal"
    elif bmi > 25:
        return name + " is overweight";



main();
```

1. A comment saying who wrote this code and the date alongside the actual function of the code.
2. Defining a 'mainheadings' function for the main headings of the program.
3. print() function with space.
4. print() function with text explaining what the BMI calculator is and its parameters.

5. print() function with explaining what the BMI calculator is and its paramaters (cont.).
6. print() function with a line break.
7. Defining a 'main' function for the main code and meat of the program.
8. Calling the 'mainheadings' function for the main headings to appear in the 'main' function of the program
9. Defining the 'name' input value to make a string type where a name can be inputted in the program.
10. Defining the 'height_inches' input value to make a integer type where an integer can be inputted in the program.
11. Defining the 'weight_pounds' input value to make a integer type where an integer can be inputted in the program.
12. print() function with space.
13. print() function to call the bmi_calculator, whose paramaters are all the input type values that were made above.
14. print() function with space.
15. Defining a 'bmi_calculator' function for the main BMI calculation in the program.
16. Defining weight_pounds to be an integer type.
17. Defining height_inches to be an integer type.
18. Defining a global variable where the bmi threshold for being underweight is the value 18.5
19. Defining a global variable where the bmi threshold for being underweight is the value 18.5
20. Defining a float value where the actual BMI calculation is being made for the code.
21. Using the print() function to print the bmi result.
22. If statement saying that if a value is is less than or equal to the bmi_threshold_underweight, then return a result that this person is underweight.
23. Else if statement saying that if a value is is less than or equal to the bmi_threshold_normal, then return a result that this person is normal.
24. Else if statement saying that if a value is is greater than 25, then return a result that this person is overweight.\
25. Calling the main() function in order for all the code to actually work