

Practical Workbook
Introduction To Data Science



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Lab # 1

Task 1: Create a BMI Calculator with Python.

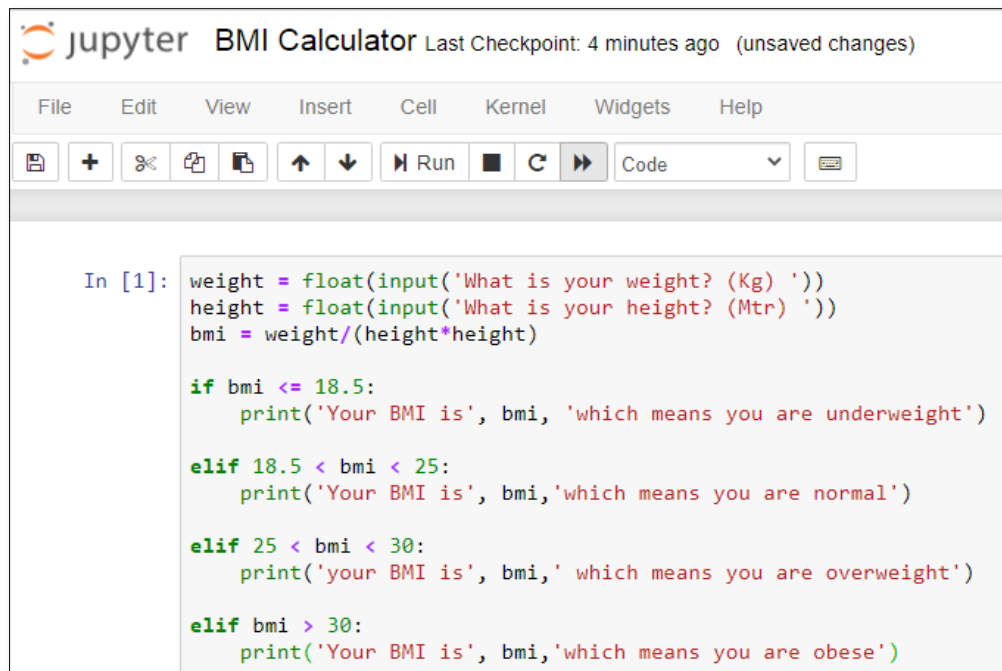
What is Body Mass Index (BMI)?

BMI is a measure of relative weight based on an individual's mass and height. Today, Body Mass Index is commonly used to classify people as underweight, overweight, and even with obesity. Also, it is adopted by countries to promote healthy eating.

BMI can be considered as an alternative for direct measurements of body fat. Besides, BMI is an inexpensive and easy-to-perform method of screening for weight classes that may cause health problems.

Hint : The body mass index is calculated by dividing an individual's weight in kilograms by their height in meters, then dividing the answer again by their height

Code:

A screenshot of a Jupyter Notebook titled "BMI Calculator". The interface includes a top bar with the Jupyter logo, the title, and a status message "Last Checkpoint: 4 minutes ago (unsaved changes)". Below this is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". A toolbar contains icons for saving, adding, deleting, copying, pasting, undo, redo, and running code. The main area shows a code cell with the following Python code:

```
In [1]: weight = float(input('What is your weight? (Kg) '))
height = float(input('What is your height? (Mtr) '))
bmi = weight/(height*height)

if bmi <= 18.5:
    print('Your BMI is', bmi, 'which means you are underweight')

elif 18.5 < bmi < 25:
    print('Your BMI is', bmi, 'which means you are normal')

elif 25 < bmi < 30:
    print('your BMI is', bmi, ' which means you are overweight')

elif bmi > 30:
    print('Your BMI is', bmi, 'which means you are obese')
```

Output:

```
What is your weight? (Kg) 56  
What is your height? (Mtr) 1.6  
Your BMI is 21.874999999999996 which means you are normal
```