**Requirements:**

1. Created a JSON file with the given patient data (Gender, HeightCm, WeightKg as columns) in BMI\_Dataset.csv file
2. To categorize the patients in the terms of BMI category and Health risk by using the BMI values.

**Implementation:**

1. **BMI calculation**: calculator\_BMI method returns BMI values rounded to two decimal digits by taking weightKg and HeightCm of a patient as inputs to the function
2. **Classifying patients based on BMI values:** classify\_person\_based\_BMI method returns a String in the form of “BMI\_category:Health\_risk” by taking patient BMI value as input to the function
3. **Inserting the new columns (BMI, BMI category, Health risk) into given data:** add\_columns method will add three new columns – BMI, BMI category, Health risk into patient data by taking patient data as input
4. **Count of Overweight persons:** overweight\_count method returns the number of over weight persons in the patient data by taking patient data as input

Testing:

1. Unit test cases are generated by covering all the inclusive conditions for BMI values, BMI category and Health risk

Implementation and Testing are placed under same file BMICalculator.ipynb

Github Link: <https://github.com/ranjith0430/code-20220724-RanjithKumarMittapelli>