**Assignment\_02:** This is 5% of your over all marks. Submit it by the deadline. If not submitted by deadline then 5% for each business days will be deducted. After 5 business days , Marks 0 will be awarded.

UPLOAD only .java file

Question:

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Body Mass Index(BMI ) is a measure of health on weight. It can be calculated by taking your weight in kilogram and dividing by the square of your height in meters. Write a program that prompts the user to enter a weight in pounds and height in inches and displays **the BMI categories**

**INSTRUCTIONS : Make sure you follow all the instructions**

1. This program will be written using **Single Dimensional Array**
2. Create a class BMIArray : You will have main method in this class.
3. : Ask user to enter number of persons
4. create two arrays weight and height. Both arrays will be type of double and
5. Now using for loop and using above BOTH height and weight Arrays, calculate BMI for each person .
6. In above for loop, also use if and else condition to print BMI category as per below guidelines.

**BMI Categories:**   
Underweight = <18.5  
Normal weight = 18.5–24.9   
Overweight = 25–29.9   
Obesity = BMI of 30 or greater

**Note** that one pound is 0.453 Kilograms and one inch is 0.0254 meters . Here is the sample output :

**RUBRIC:**

**1 marks : Put comments regarding the program at the top and also put your name as author . Also**

**1marks: Properly structured program : You should have proper indentation . :.It should have proper indentation with braces also. Your program should also follow naming standards for classes, variables and methods**

**2 marks: All the instructions should be followed( regarding arrays and calculation).**

**1 mark : Over all quality of the program: If you meet all above criteria ,then you earn this 1 mark.**