Lembar Soal & Jawaban UTS Prodi S1 Teknologi Informasi USU Pemrograman Integrative Senin, 25 Maret 2024 Nama: Khanif Pratama Surbakti

NIM : 211402104

## Petunjuk:

Cantumkan tanggapan layar (screenshot) untuk kode yang dituliskan dan hasil yang diperoleh sehingga saya bisa mengetahui bahwa Anda sendiri yang mengerjakan ujian ini.

Apabila ditemukan jawaban yang identik sama dari hasil screenshot-nya, maka hasil ujian dari setiap mahasiswa tersebut akan dibatalkan.

Letakkan file soal beserta jawaban ini pada platform kelas.usu.ac.id dalam format .pdf. Letakkan juga semua kode program berektensi .py hasil pengerjaan UTS ini pada akun GitHub masing-masing peserta ujian, lalu cantumkan link GitHub tersebut pada kelas.usu.ac.id.

- 1. Write a Python program that reads in a whole number and divides it by number of days this year and displays the result with eleven decimal places if they exist (rounded up).
- Write a Python program that reads a number (today's test date) and prints the product of all the values from 1 to that number.
- 3. Write a Python program that reads in a number and prints the date that number of days from now in this format: Monday on 25 March 2024.
- 4. Write a Python class that calculates and stores the height and weight of a person in metric. The BMI is calculated using this formula:

## Weight/Height^2

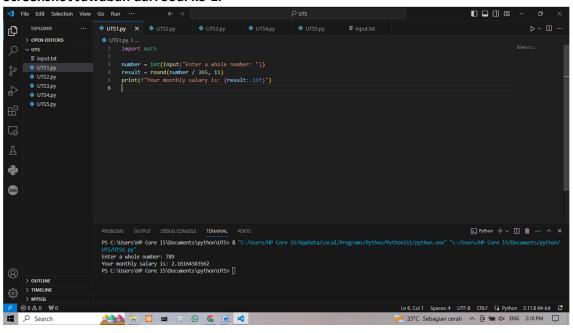
Weight is in pound and height is in feet.

The class should have two properties named: Weight and Height

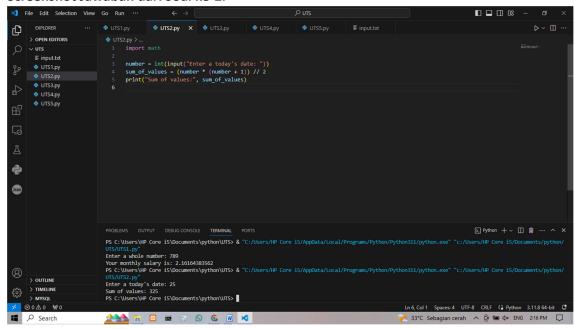
The class should have two methods:

- BMI\_Value This takes no arguments and returns a decimal value of the BMI;
- Equals This should override the equals method from the object class to compare the weight and height of two BMI objects. To override the equal method you should implement this method: \_\_eq\_\_(self, other) and return a boolean.
- Write a program that reads in integer numbers from a text file named input.txt in the same directory as the executing program.
  - Print the sum of the numbers with comma separators and three digits.

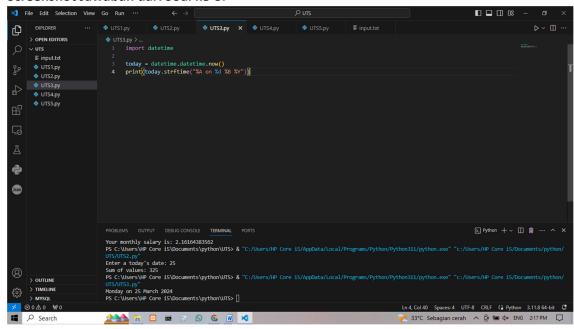
1. Screenshot Jawaban dari Soal ke-1.



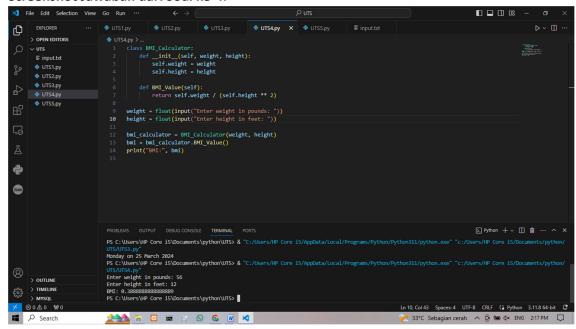
2. Screenshot Jawaban dari Soal ke-2.



3. Screenshot Jawaban dari Soal ke-3.



4. Screenshot Jawaban dari Soal ke-4.



5. Screenshot Jawaban dari Soal ke-5.

