Lembar Soal & Jawaban UTS Prodi S1 Teknologi Informasi USU Pemrograman Integrative Senin, 25 Maret 2024 Nama: Hanzel Oclihar Tjiam

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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.

- 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.
- 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.

```
version sould be sould be
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\kuliah\SEM 4\PI\UTS> python -u "d:\Kuliah\SEM 4\PI\UTS\soal1.py"

Enter a whole number: 32775983

89551.86612021858
```

2. Screenshot Jawaban dari Soal ke-2.

3. Screenshot Jawaban dari Soal ke-3.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\kuliah\SEM 4\PI\UTS> python -u "d:\Kuliah\SEM 4\PI\UTS\soal3.py"

Enter a number: 5

Saturday on 30 March 2024
```

4. Screenshot Jawaban dari Soal ke-4.

```
soal1.py
               soal2.py
                              soal3.py
                                             soal4.py X soal5.py
                                                                            ≡ inpu
D: > Kuliah > SEM 4 > PI > UTS > • soal4.py > • Bmi
     # NIM: 221402064
      class Bmi:
         def __init__(self, weight, height):
              weight = weight * 0.453592
             self.weight = weight
             height = height * 0.3048
              self.height = height
         def BMI_Value(self):
              return self.weight /( self.height ** 2 )
 16
          def __eq__(self, other):
              if self.weight == other.weight and self.height == other.height:
                 return True
                 return False
      test1 = Bmi(137, 6)
     test2 = Bmi(150, 7)
      test3 = Bmi(137, 6)
      print(test1 == test2)
      print(test1 == test3)
     print(test1.BMI_Value())
 31 print(test2.BMI_Value())
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

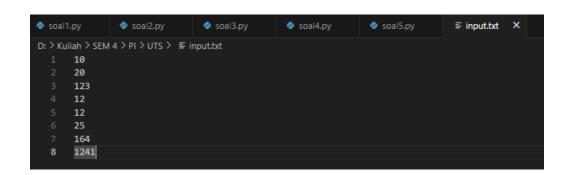
PS D:\kuliah\SEM 4\PI\UTS> python -u "d:\Kuliah\SEM 4\PI\UTS\soal4.py"

False
True

18.58033446005163

14.94619485837611
```

5. Screenshot Jawaban dari Soal ke-5.



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\kuliah\SEM 4\PI\UTS> python -u "d:\Kuliah\SEM 4\PI\UTS\soal5.py"

1,607
```