

LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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Bmimeta.py

#Nama : AHMAD

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#Kelas:R3/TI21C

```
classBodyMassIndexMeta(type):
    def init(cls, name, bases,
              attrs):super().init(name,bases,attrs)
    cls.tb_standar=""

    defto_pria(cls,tb):
        return(tb-100) -((tb-100)*(10/100))

    defto_wanita(cls,tb):
        return(tb-100) -((tb-100)*(15/100))

class
    Bmi(metaclass=BodyMassIndexMeta)
    :def init(self, tb,bb):
        self.tb =
        tbself.bb=
        bb

    defke_unit(self,unit):
        ifunit=="Pria":
            self.tb=self.class.....to_pria(self.tb)
            self.class.....tb_standar= "(Kg)Pria"
```

```

elif unit=="Wanita":
    self.tb=self.class.to_wanita(self.tb)
    self.class.tb_standar= "(Kg) Wanita"
elif unit ==
    "Bmi":pass#don
    othing
else:
    raise ValueError(f"Unit{unit}tidakdikenal.")

```

```

def mutu(self):

```

```

    bmikalkulator = (self.bb /
    (self.tb/100*2))if bmikalkulator <18.5:
        return bmikalkulator,
        "KURUS"elif bmikalkulator >=18.
5:
        return bmikalkulator,
        "NORMAL"elif bmikalkulator >=24.
9:
        return bmikalkulator,
        "GEMUK"else:
            returnbmikalkulator, "OBESITASLALALA"

```

```

def repr(self):

```

```

    returnf"{self.tb:.2f}{self.class.tb_standar}"

```

```

# Membuat objek tb dengan nilai 100

```

```

Bmic= Bmi(160,65)

```

```

b= c.mutu()

```

```

# Mengubah objek tb menjadi

```

```

Fahrenheitc.ke_unit("Pria")

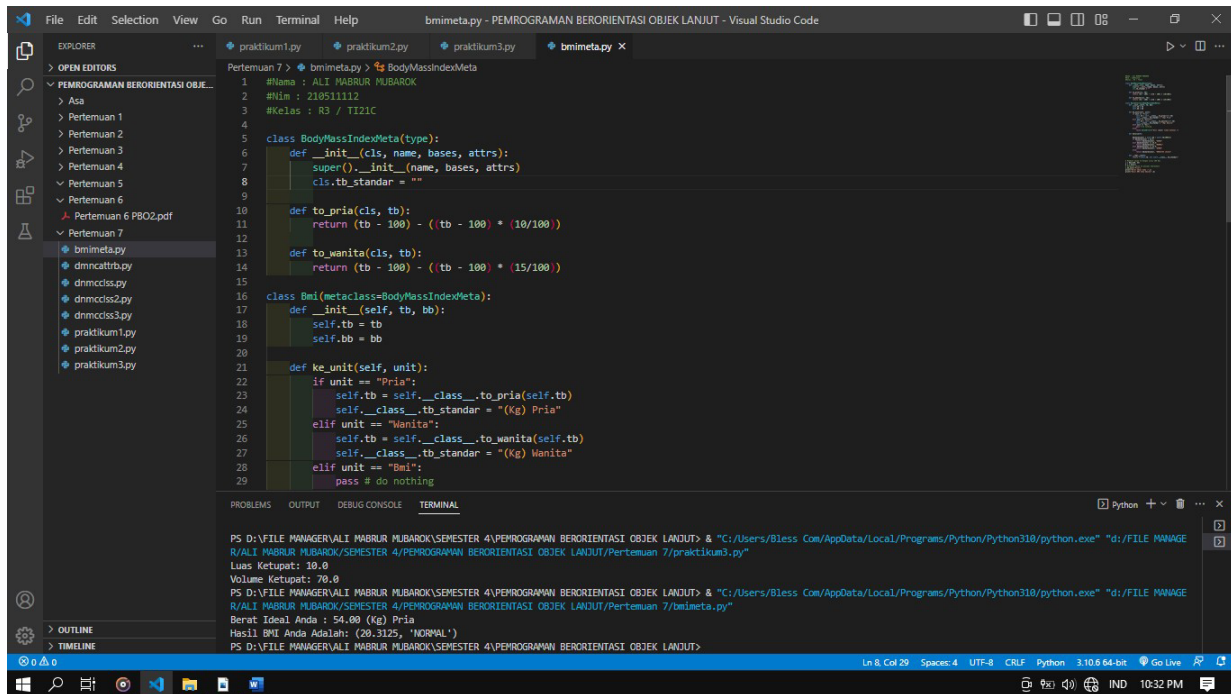
```

```

print("BeratIdeal Anda:",c)

```

```
print("HasilBMIAndaAdalah:",b)
```



The screenshot displays the Visual Studio Code interface with a Python file named `bmimeta.py` open. The file contains a class `BodyMassIndexMeta` and a class `Bmi` that inherits from it. The `Bmi` class has methods to calculate BMI for males and females based on weight and height, and a method to print the result.

```
1 #Nama : ALI MABRUR MUBAROK
2 #Nim : 210511112
3 #Kelas : R3 / TI21C
4
5 class BodyMassIndexMeta(type):
6     def __init__(cls, name, bases, attrs):
7         super().__init__(name, bases, attrs)
8         cls.tb_standar = ""
9
10    def to_pria(cls, tb):
11        return (tb - 100) - ((tb - 100) * (10/100))
12
13    def to_wanita(cls, tb):
14        return (tb - 100) - ((tb - 100) * (15/100))
15
16    class Bmi(metaclass=BodyMassIndexMeta):
17        def __init__(self, tb, bb):
18            self.tb = tb
19            self.bb = bb
20
21        def ke_unit(self, unit):
22            if unit == "Pria":
23                self.tb = self.__class__.to_pria(self.tb)
24                self.__class__.tb_standar = "(Kg) Pria"
25            elif unit == "Wanita":
26                self.tb = self.__class__.to_wanita(self.tb)
27                self.__class__.tb_standar = "(Kg) Wanita"
28            elif unit == "Bmi":
29                pass # do nothing
```

The terminal output shows the execution of the script, displaying the calculated BMI and the corresponding unit (Pria or Wanita) for a given weight and height.

```
PS D:\FILE MANAGER\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT> & "C:\Users\Bless Com\AppData\Local\Programs\Python\Python310\python.exe" "d:/FILE MANAGE
R/ALI MABRUR MUBAROK/SEMESTER 4/PEMROGRAMAN BERORIENTASI OBJEK LANJUT/Pertemuan 7/praktikum3.py"
Luas Ketupat: 10.0
Volume Ketupat: 70.0
PS D:\FILE MANAGER\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT> & "C:\Users\Bless Com\AppData\Local\Programs\Python\Python310\python.exe" "d:/FILE MANAGE
R/ALI MABRUR MUBAROK/SEMESTER 4/PEMROGRAMAN BERORIENTASI OBJEK LANJUT/Pertemuan 7/bmimeta.py"
Berat Ideal Anda : 54.00 (Kg) Pria
Hasil BMI Anda Adalah: (20.3125, 'NORMAL')
PS D:\FILE MANAGER\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT>
```