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# W9 – Pemrograman Lanjut

Oleh :

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Capaian dan tugas minggu ini :

- String (built in function). Tugas 1. mencoba built-in function yang ada didalam modul.
- Try except. Tugas 2. Tugas nya mencoba yang ada didalam video. Dan coba bebarap tipe error.
- Manage with files. Tugas 3. Mencoba yang ada di link dan di modul.
- Tugas 4 yang ada di modul membuat aplikasi restoran, halaman 69.

# Video



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```
#### STRING ####
```

```
ch_1 = 'A'  
ch_2 = 'a'
```

```
ord_1 = 65
```

```
print(ord(ch_1))  
print(ord(ch_2))
```

```
print(chr(ord_1))
```

✓ 1.6s

65

97

A

```
sentence = "alimsatria"
```

```
print("alim" in sentence)
```

✓ 0.5s

True

```
print("terima kasih selamat malam".capitalize())  
print(" terima kasih selamat malam".capitalize())  
print("terima kasih. selamat malam".capitalize())
```

✓ 0.4s

Terima kasih selamat malam  
terima kasih selamat malam  
Terima kasih. selamat malam

```
print('lambda30'.isalnum())  
print('@'.isalnum())
```

✓ 0.4s

True  
False

```
#### TRY EXCEPT ####
```

```
value = 1  
value /= 0
```

⊗ 0.5s

ZeroDivisionError: division by zero  
/home/alimsatria/Documents/MATERI KULIAH/PEMP

```
1 #### TRY EXCEPT ####  
3 value = 1  
----> 4 value /= 0
```

ZeroDivisionError: division by zero

```
num_1 = int(input("Masukkan angka 1 : "))  
num_2 = int(input("Masukkan angka 2 : "))
```

```
if num_2 != 0 :  
    print(num_1/num_2)  
else :  
    print("Tidak dapat diproses")
```

✓ 3.4s

Tidak dapat diproses

```
try :  
    num_1 = int(input("Masukkan angka 1 : "))  
    num_2 = int(input("Masukkan angka 2 : "))  
    print(num_1/num_2)  
except :  
    print("tidak dapat diproses")
```

✓ 3.1s

tidak dapat diproses

```
try :  
    num_1 = int(input("Masukkan angka 1 : "))  
    num_2 = 1 / num_1  
    print(num_2)  
except ZeroDivisionError :  
    print("tidak dapat dibagi nol")  
except ValueError :  
    print("Silahkan masukkan data dengan format integer")
```

✓ 1.9s

Silahkan masukkan data dengan format integer



# Tugas 1



- TUGAS SATU

```
print("Hello world".split())  
print("Hello World".swapcase())  
print("Hello World".istitle())  
print("12345678910".isdigit())
```

✓ 0.5s

```
['Hello', 'world']
```

```
hELLO wORLD
```

```
True
```

```
True
```

# Tugas 2



```
try :  
    print(3*alpha + 1)  
except NameError:  
    print("Variable belum di deklarasikan")  
  
try :  
    print('1'+100)  
except TypeError :  
    print("Tipe data yang dimasukkan salah")  
  
try:  
    import helloworld  
except ImportError :  
    print("Terdapat error pada library yang di import")
```

✓ 0.6s

Variable belum di deklarasikan

Tipe data yang dimasukkan salah

Terdapat error pada library yang di import

# Tugas 3



- TUGAS TIGA

```
f = open('demofile.txt')  
f = open("demofile.txt", "rt")
```

✓ 0.3s

```
f = open("demofile.txt", "r")  
print(f.read())
```

✓ 0.4s

Hello! Welcome to demofile.txt  
This file is for testing purposes.  
Good Luck!

```
f = open("demofile.txt", "r")  
print(f.read(5))
```

✓ 0.4s

Hello

```
f = open("demofile.txt", "r")  
print(f.readline())
```

✓ 0.3s

Hello! Welcome to demofile.txt

```
f = open("demofile.txt", "r")  
print(f.readline())  
print(f.readline())
```

✓ 0.5s

Hello! Welcome to demofile.txt

This file is for testing purposes.

```
f = open("demofile.txt", "r")  
for x in f:  
    print(x)
```

✓ 0.4s

Hello! Welcome to demofile.txt

This file is for testing purposes.

Good Luck!

```
f = open("demofile.txt", "r")  
print(f.readline())  
f.close()
```

✓ 0.4s

Hello! Welcome to demofile.txt

# Tugas 3



```
f = open("demofile2.txt", "a")
f.write("Now the file has more content!")
f.close()
```

```
#open and read the file after the appending:
f = open("demofile2.txt", "r")
print(f.read())
```

✓ 0.4s

Now the file has more content!

```
f = open("demofile3.txt", "w")
f.write("Woops! I have deleted the content!")
f.close()
```

```
#open and read the file after the appending:
f = open("demofile3.txt", "r")
print(f.read())
```

✓ 0.4s

Woops! I have deleted the content!

```
f = open("demofile3.txt", "w")
f.write("Woops! I have deleted the content!")
f.close()
```

```
#open and read the file after the appending:
f = open("demofile3.txt", "r")
print(f.read())
```

✓ 0.4s

Woops! I have deleted the content!

```
f = open("myfile.txt", "x")
```

✓ 0.3s

```
f = open("myfile.txt", "w")
```

✓ 0.4s

File file yang dihasilkan selama pemrograman

▼ TUGAS_MODUL	●
≡ demofile.txt	U
≡ demofile2.txt	U
≡ demofile3.txt	U
≡ myfile.txt	U
📄 TUGAS_MODUL.ipynb	U



# Tugas 3



```
import os
```

```
os.remove("demofile.txt")
```

✓ 0.4s

```
import os
```

```
if os.path.exists("demofile.txt"):
```

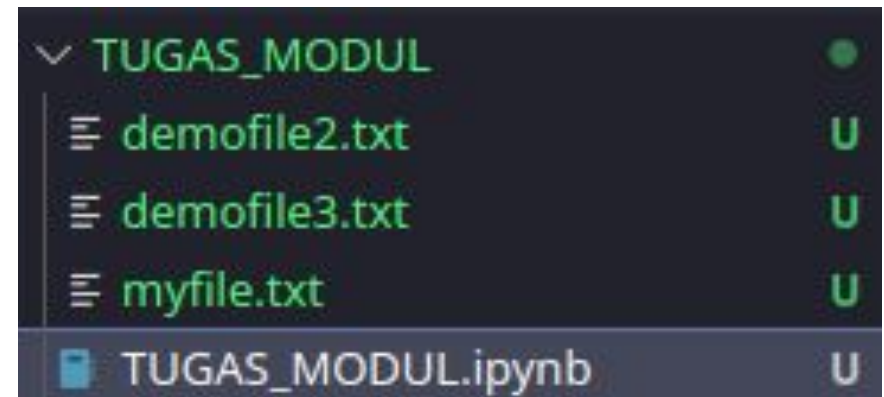
```
    os.remove("demofile.txt")
```

```
else:
```

```
    print("The file does not exist")
```

✓ 0.4s

The file does not exist



List file setelah dilakukan penghapusan pada demofile.txt

# Tugas 4



```
import csv

data = []
purchased_item = []
purchased_total = 0

def input_user_data() :

    data = []

    data.append(str(input('Silahkan masukkan username :')))
    data.append(str(input('Silahkan masukkan password :')))

    return data
```

```
def read_user_database() :

    with open('user.txt') as csv_file :

        data = []
        data_ = []

        for row in csv.reader(csv_file) :
            data.append(row)

        for i in range(2) :
            data_.append(data[i][0])

        return data_

def input_order() :

    data = []

    while(1) :
        order = int(input('Masukkan nominal harga makanan : (masukkan nilai nol apabila order sudah penuh) '))
        if(order == 0) :
            print('nominal terdekesi nol, order akan dijumlahkan...')
            break
        else :
            data.append(order)

    return data
```

Dari kiri ke kanan

# Tugas 4



```
def summary(data) :  
  
    total = 0  
  
    for i in range(len(data)) :  
        total = total + data[i-1]  
    return total  
  
def mid_or_end_month_disc() :  
  
    flag = int(input('Masukkan tanggal pembelian : '))  
  
    if flag == 15 or range(28,30) :  
        print('diskon tengah/akhir bulan : 10 persen ',)  
        return 0.1 #diskon sepuluh persen untuk tengah / akhir bulan  
    else :  
        return 0
```

```
def member_disc() :  
    flag = str(input('Apakah pembeli masuk member? (y/n)'))  
  
    if flag == 'y' :  
        print('Diskon member sebesar : 20 persen')  
        return 0.2 #diskon dua puluh persen untuk member  
    else : return 0  
  
def individual_or_businees_tax() :  
    flag = str(input('Apakah untuk pembelian pribadi atau perusahaan (p/u)'))  
  
    if flag == 'p' :  
        return 0  
    else :  
        print('Pajak pembelian perusahaan : 5 persen')  
        return 0.05  
  
def restaurant_tax(total) :  
    if total >= 500000 :  
        print('pajak restoran : 5 persen')  
        return 0.05  
    else : return 0
```

Dari kiri ke kanan

# Tugas 4



```
while(1) :  
    while (1) :  
        if input_user_data() != read_user_database() :  
            print('Username atau password salah, silahkan ulangi')  
        else :  
            print('Username dan password benar, silahkan lanjutkan')  
            break  
  
    while(1) :  
        purchased_item = input_order()  
        purchased_total = summary(purchased_item)  
  
        print('Pembelian makanan anda sebagai berikut : ',purchased_item)  
        print('total sebelum diskon dan pajak : ',purchased_total)  
  
        purchased_total = purchased_total - (purchased_total*mid_or_end_month_disc())  
        purchased_total = purchased_total - (purchased_total*member_disc())  
        purchased_total = purchased_total + (purchased_total*individual_or_businees_tax())  
        purchased_total = purchased_total + (purchased_total*restaurant_tax(purchased_total))  
  
        print('Pembelian setelah diskon dan pajak : ',purchased_total)  
  
        data.append(purchased_total)
```

```
with open('transaksi.txt',mode = 'w') as transc_file :  
    t_file_write = csv.writer(transc_file,delimiter = ',' )  
    t_file_write.writerow(data)  
  
flag = str(input('Apakah ada transaksi lain? (y/n)'))  
  
if(flag == 'n') :  
    print('terimakasih telah memesan')  
    break
```



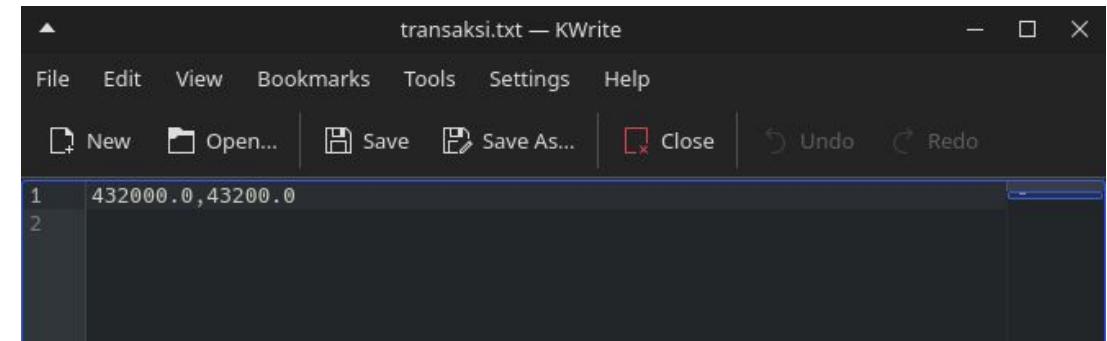
# Tugas 4



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```
Username dan password benar, silahkan lanjutkan  
nominal terdekesi nol, order akan dijumlahkan...  
Pembelian makanan anda sebagai berikut : [100000, 200000, 300000]  
total sebelum diskon dan pajak : 600000  
diskon tengah/akhir bulan : 10 persen  
Diskon member sebesar : 20 persen  
Pembelian setelah diskon dan pajak : 432000.0  
nominal terdekesi nol, order akan dijumlahkan...  
Pembelian makanan anda sebagai berikut : [10000, 20000, 30000]  
total sebelum diskon dan pajak : 60000  
diskon tengah/akhir bulan : 10 persen  
Diskon member sebesar : 20 persen  
Pembelian setelah diskon dan pajak : 43200.0  
terimakasih telah memesan
```

Output console



Instruksi.txt