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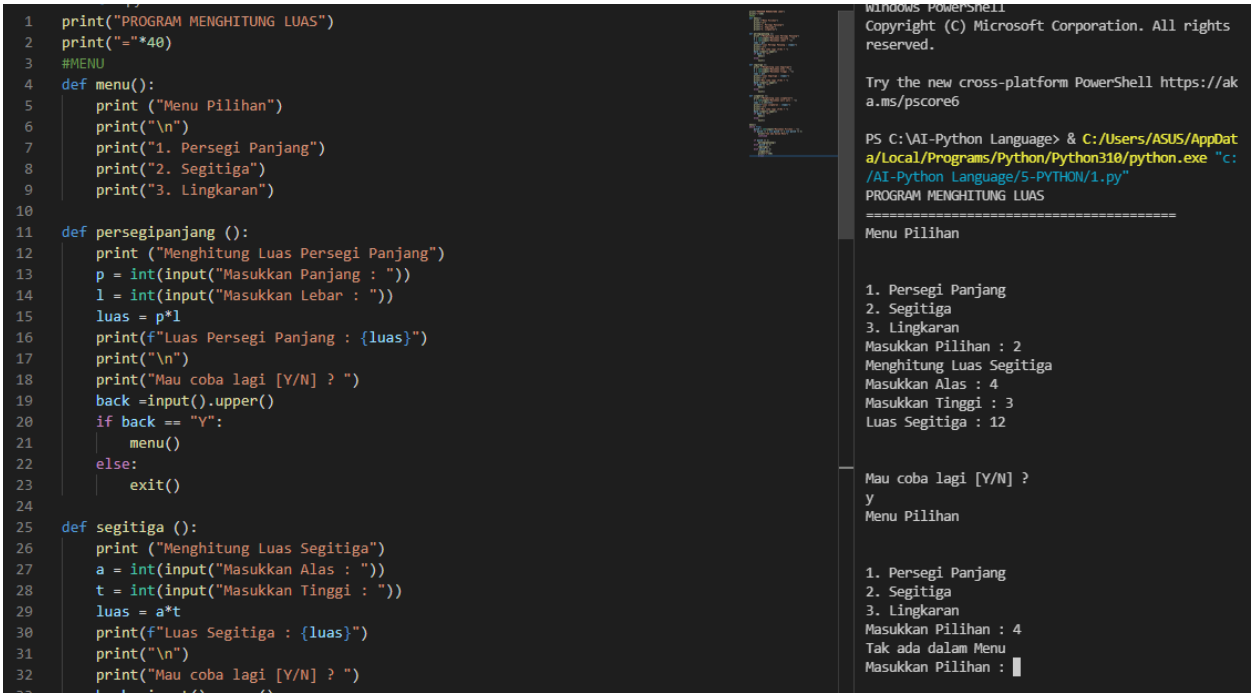
Nim : 20.01.013.009

Kelas : Kecerdasan Buatan (AI-3B)

Tugas Praktikum V-UAS

1. Program Mencari Luas



```
print("PROGRAM MENGHITUNG LUAS")
print("="*40)
#MENU
def menu():
    print ("Menu Pilihan")
    print("\n")
    print("1. Persegi Panjang")
    print("2. Segitiga")
    print("3. Lingkaran")

def persegipanjang ():
    print ("Menghitung Luas Persegi Panjang")
    p = int(input("Masukkan Panjang : "))
    l = int(input("Masukkan Lebar : "))
    luas = p*l
    print(f"Luas Persegi Panjang : {luas}")
    print("\n")
    print("Mau coba lagi [Y/N] ? ")
    back =input().upper()
    if back == "Y":
        menu()
    else:
        exit()

def segitiga ():
    print ("Menghitung Luas Segitiga")
    a = int(input("Masukkan Alas : "))
    t = int(input("Masukkan Tinggi : "))
    luas = a*t
    print(f"Luas Segitiga : {luas}")
    print("\n")
    print("Mau coba lagi [Y/N] ? ")
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\AI-Python Language> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/AI-Python Language/5-PYTHON/1.py"
PROGRAM MENGHITUNG LUAS
========================================
Menu Pilihan


1. Persegi Panjang
2. Segitiga
3. Lingkaran
Masukkan Pilihan : 2
Menghitung Luas Segitiga
Masukkan Alas : 4
Masukkan Tinggi : 3
Luas Segitiga : 12


Mau coba lagi [Y/N] ?
y
Menu Pilihan


1. Persegi Panjang
2. Segitiga
3. Lingkaran
Masukkan Pilihan : 4
Tak ada dalam Menu
Masukkan Pilihan :
```
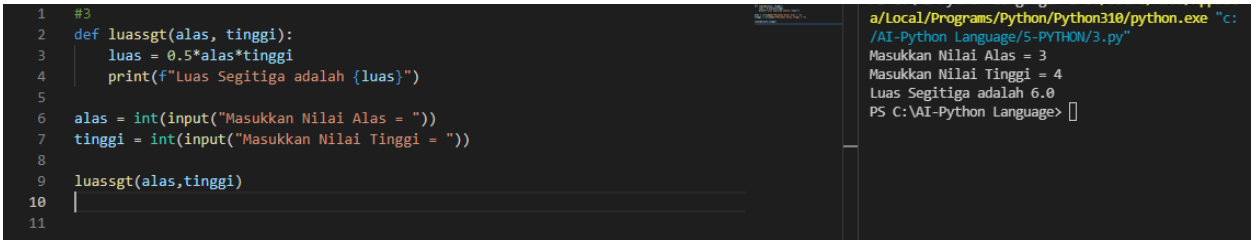

2. Program Mencari Luas dengan file berbeda

```
#2
print ("Menghitung Luas Persegi Panjang")
p = int(input("Masukkan Panjang : "))
l = int(input("Masukkan Lebar : "))
luas = p*l
print(f"Luas Persegi Panjang : {luas}")

print ("Menghitung Luas Segitiga")
a = int(input("Masukkan Alas : "))
t = int(input("Masukkan Tinggi : "))
luas = a*t
print(f"Luas Segitiga : {luas}")

print ("Menghitung Luas Lingkaran")
r = int(input("Masukkan Jari jari : "))
luas = 3.14*(r*r)
print(f"Luas Lingkaran : {luas}")
```

```
PS C:\AI-Python Language> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/AI-Python Language/5-PYTHON/2.py"
Menghitung Luas Persegi Panjang
Masukkan Panjang : 2
Masukkan Lebar : 6
Luas Persegi Panjang : 12
Menghitung Luas Segitiga
Masukkan Alas : 3
Masukkan Tinggi : 4
Luas Segitiga : 12
Menghitung Luas Lingkaran
Masukkan Jari jari : 4
Luas Lingkaran : 50.24
PS C:\AI-Python Language>
```

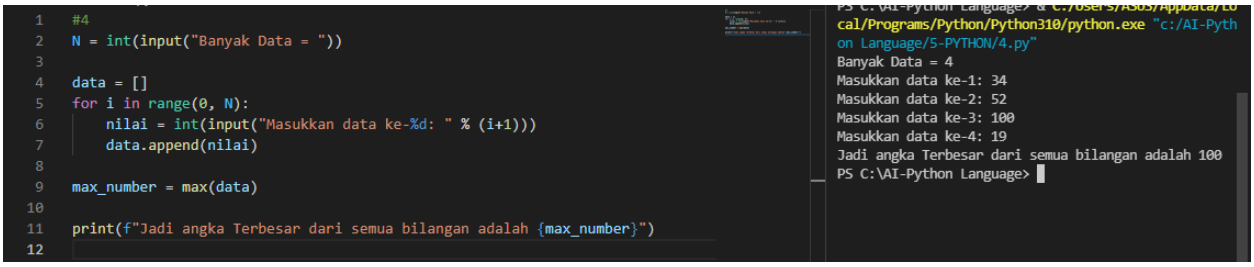
3. Program Mencari Luas Segitiga dengan Function



```python
#3
def luassgt(alas, tinggi):
    luas = 0.5*alas*tinggi
    print(f"Luas Segitiga adalah {luas}")

alas = int(input("Masukkan Nilai Alas = "))
tinggi = int(input("Masukkan Nilai Tinggi = "))

luassgt(alas,tinggi)
```

```
a/Local/Programs/Python/Python310/python.exe "c:
/AI-Python Language/5-PYTHON/3.py"
Masukkan Nilai Alas = 3
Masukkan Nilai Tinggi = 4
Luas Segitiga adalah 6.0
PS C:\AI-Python Language>
```

4. Program Mencari Nilai Max dengan List

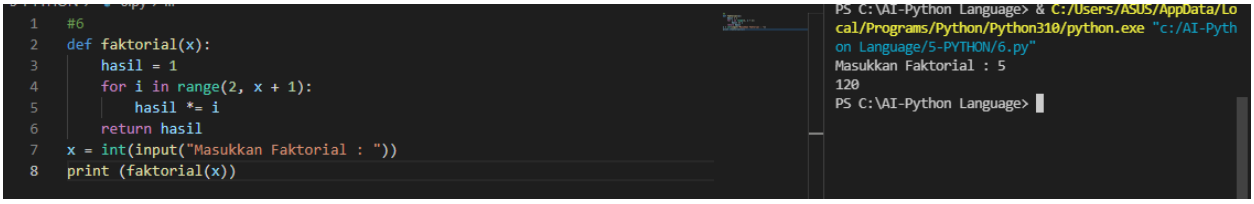


```python
#4
N = int(input("Banyak Data = "))

data = []
for i in range(0, N):
    nilai = int(input("Masukkan data ke-%d: " % (i+1)))
    data.append(nilai)

max_number = max(data)

print(f"Jadi angka Terbesar dari semua bilangan adalah {max_number}")
```

```
cal/Programs/Python/Python310/python.exe "c:/AI-Pyth
on Language/5-PYTHON/4.py"
Banyak Data = 4
Masukkan data ke-1: 34
Masukkan data ke-2: 52
Masukkan data ke-3: 100
Masukkan data ke-4: 19
Jadi angka Terbesar dari semua bilangan adalah 100
PS C:\AI-Python Language>
```

5. Gak Tau

6. Program Mencari Faktorial dengan Function



```python
#6
def faktorial(x):
    hasil = 1
    for i in range(2, x + 1):
        hasil *= i
    return hasil
x = int(input("Masukkan Faktorial : "))
print (faktorial(x))
```

```
cal/Programs/Python/Python310/python.exe "c:/AI-Pyth
on Language/5-PYTHON/6.py"
Masukkan Faktorial : 5
120
PS C:\AI-Python Language>
```

7. Program Penjumlahan Matrix

```python
    for row in matriks:
        print(row)

def pjg_matriks(matriks):
    return len(matriks[0])

def lbr_matriks(matriks):
    return len(matriks)

def jumlahkan_matriks(mat_a, mat_b):
    temp_row = []
    temp_mat = []

    for i in range(0, lbr_matriks(mat_a)):
        for j in range(0, pjg_matriks(mat_a)):
            temp_row.append(mat_a[i][j] + mat_b[i][j])
        temp_mat.append(temp_row)
        temp_row = []
    return temp_mat

list_a = [[1, 2, 3, 5], [1, 2, 3, 5], [1, 2, 3, 5]]
list_b = [[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]

print("list_a : ")
cetak_matriks(list_a)

print("\nlist_b : ")
cetak_matriks(list_b)

print("\nhasil penjumlahan :")
hasil = jumlahkan_matriks(list_a, list_b)
cetak_matriks(hasil)
```

```
cal/Programs/Python/Python310/python.exe "c:/AI-Pyth
on Language/5-PYTHON/7.py"
list_a :
[1, 2, 3, 5]
[1, 2, 3, 5]
[1, 2, 3, 5]

list_b :
[1, 1, 1, 1]
[1, 1, 1, 1]
[1, 1, 1, 1]

hasil penjumlahan :
[2, 3, 4, 6]
[2, 3, 4, 6]
[2, 3, 4, 6]
PS C:\AI-Python Language>
```

8. Program

```python
import math

print("Persamaan: ax^2 + bx + c = 0")
a = float(input("a = "))
b = float(input("b = "))
c = float(input("c = "))
print("----------------------------")
det = b * b - 4 * a * c
if (det<0) :
  print("Akar Imajiner.")
else :
  x1 = (b + math.sqrt(det))/(2 * a)
  x2 = (b - math.sqrt(det))/(2 * a)
  print("x1 =", x1)
  print("x2 =", x2)

```

```
cal/Programs/Python/Python310/python.exe "c:/AI-Pyth
on Language/5-PYTHON/8.py"
Persamaan: ax^2 + bx + c = 0
a = 3
b = 4
c = 6
----------------------------
Akar Imajiner.
PS C:\AI-Python Language>
```