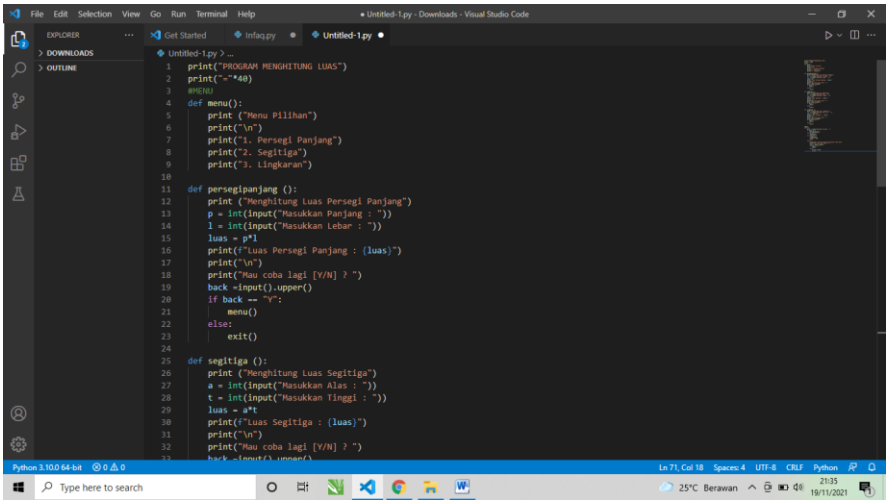
Nama: Ade Lilis Aprianti

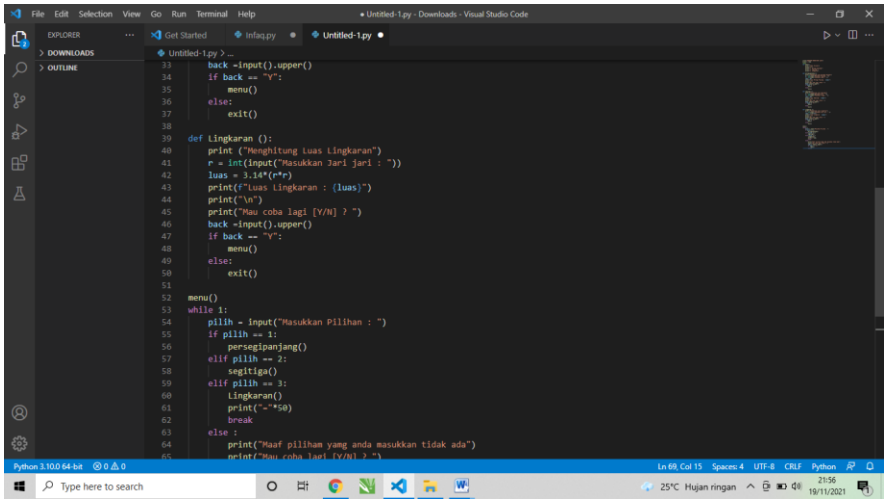
Nim: 20.01.013.048

Kelas: AI-B

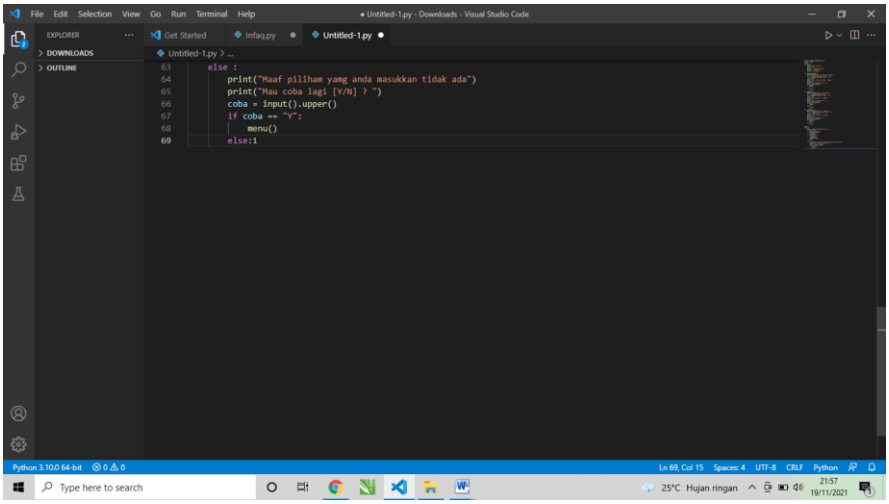
1.



```
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] ? ")
```

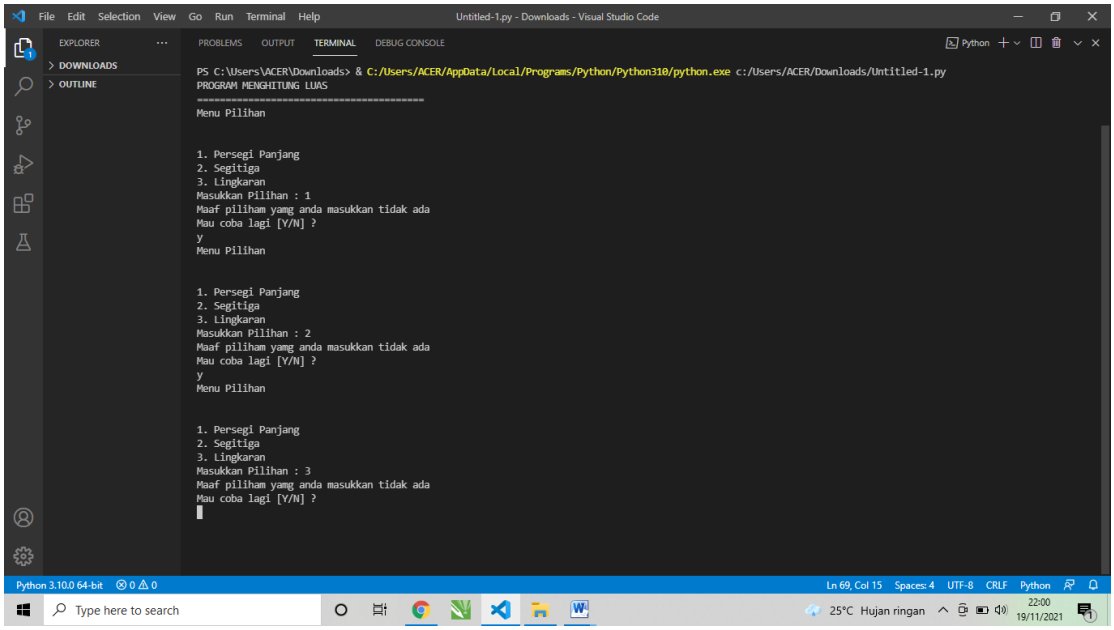


```
    back =input().upper()
    if back == "Y":
        menu()
    else:
        exit()

def Lingkaran ():
    print ("Menghitung Luas Lingkaran")
    r = int(input("Masukkan Jari jari : "))
    luas = 3.14*(r*r)
    print(f"Luas Lingkaran : {luas}")
    print("\n")
    print("Mau coba lagi [Y/N] ? ")
    back =input().upper()
    if back == "Y":
        menu()
    else:
        exit()

menu()
while 1:
    pilih = input("Masukkan Pilihan : ")
    if pilih == 1:
        persegipanjang()
    elif pilih == 2:
        segitiga()
    elif pilih == 3:
        Lingkaran()
        print("-"*50)
        break
    else :
        print("Maaf piliham yamg anda masukkan tidak ada")
```

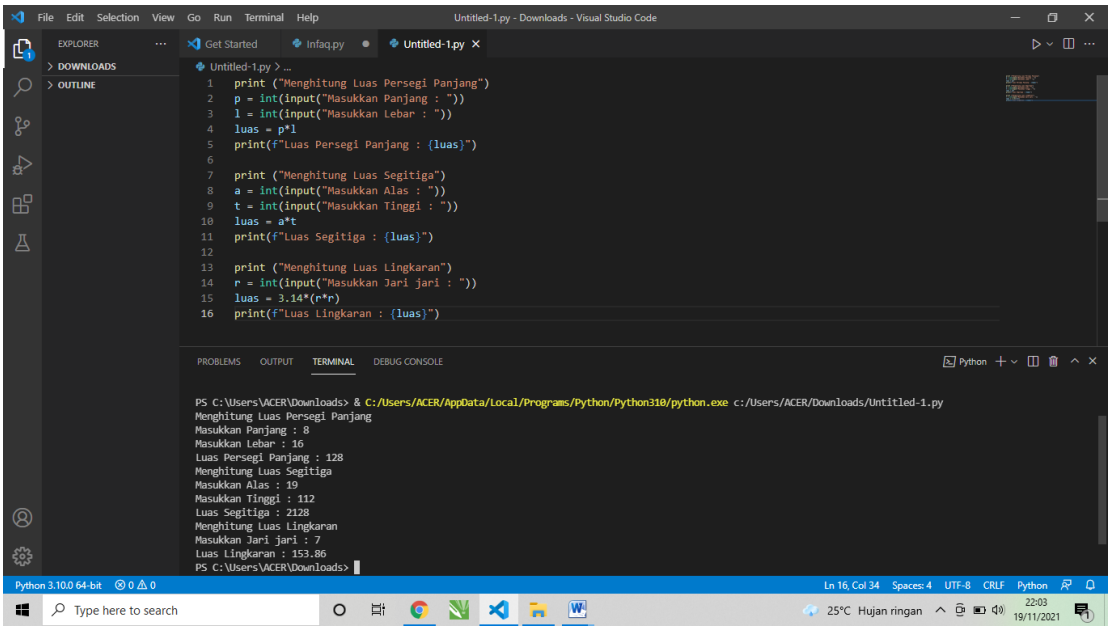


```
    else :
        print("Maaf piliham yamg anda masukkan tidak ada")
        print("Mau coba lagi [Y/N] ? ")
        coba = input().upper()
        if coba == "Y":
            menu()
        else:1
```

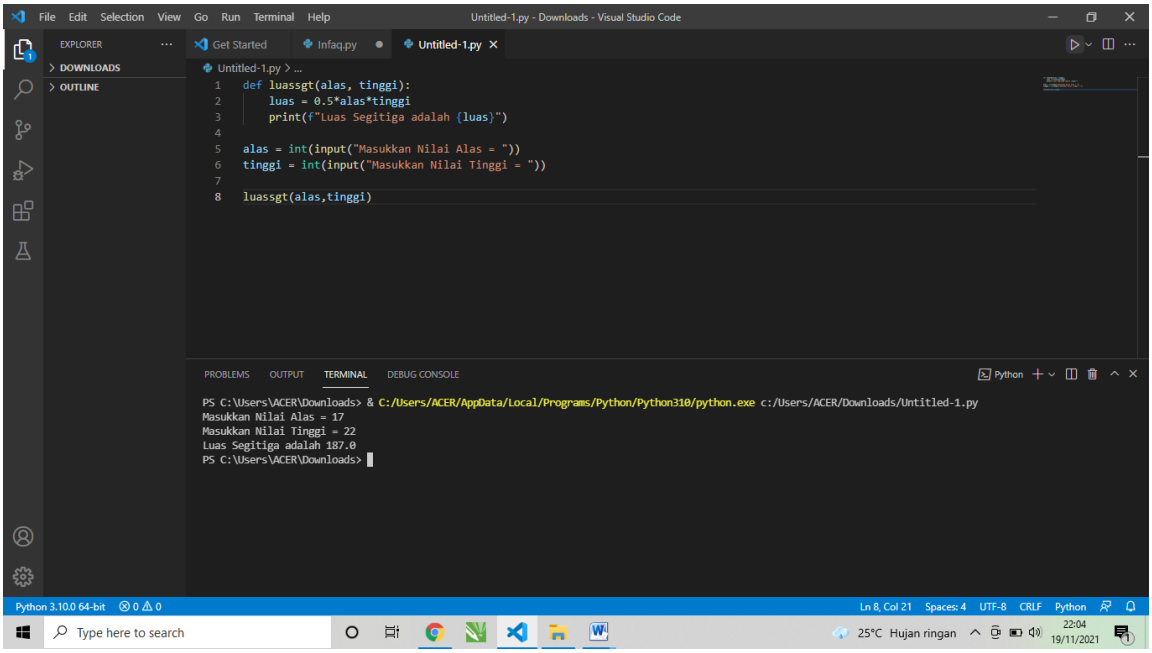
Outputnya:


File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code
EXPLORER
DOWNLOADS
OUTLINE
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
PROGRAM MENGHITUNG LUAS
Menu Pilihan
1. Persegi Panjang
2. Segitiga
3. Lingkaran
Masukkan Pilihan : 1
Maaf piliham yamg anda masukkan tidak ada
Mau coba lagi [Y/N] ?
y
Menu Pilihan
1. Persegi Panjang
2. Segitiga
3. Lingkaran
Masukkan Pilihan : 2
Maaf piliham yamg anda masukkan tidak ada
Mau coba lagi [Y/N] ?
y
Menu Pilihan
1. Persegi Panjang
2. Segitiga
3. Lingkaran
Masukkan Pilihan : 3
Maaf piliham yamg anda masukkan tidak ada
Mau coba lagi [Y/N] ?
Python 3.10.0 64-bit
Ln 69, Col 15 Spaces: 4 UTF-8 CRLF Python
Type here to search
25°C Hujan ringan
22:00
19/11/2021

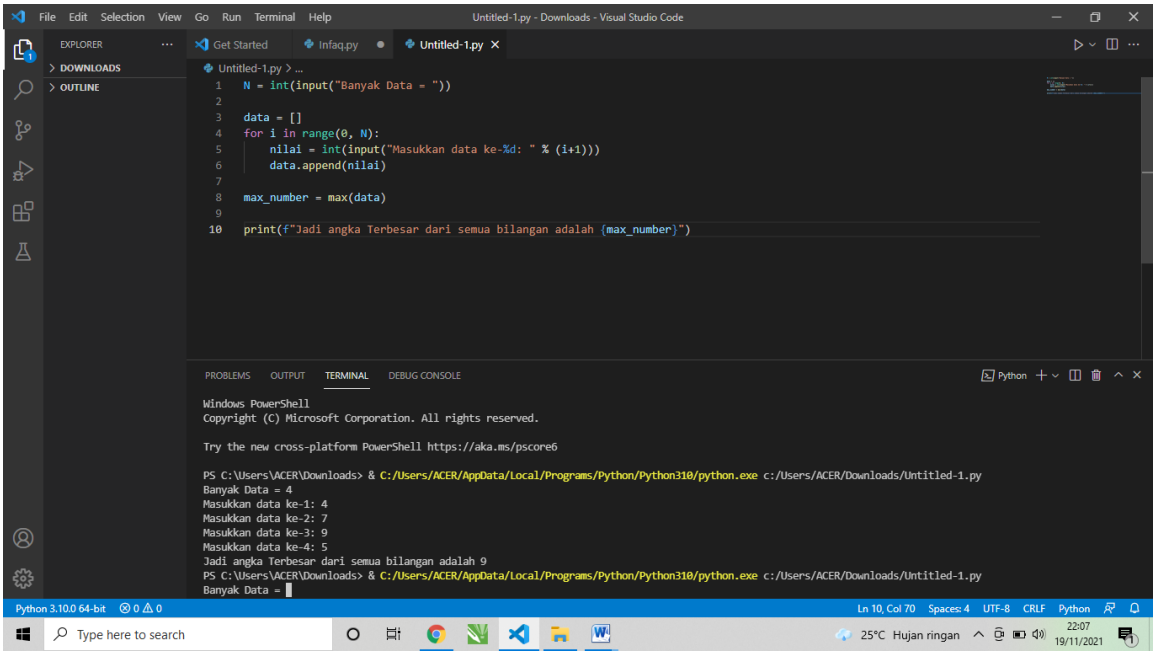
2.


File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code
EXPLORER
DOWNLOADS
OUTLINE
Get Started
Infaq.py
Untitled-1.py
Untitled-1.py > ...
1 print ("Menghitung Luas Persegi Panjang")
2 p = int(input("Masukkan Panjang : "))
3 l = int(input("Masukkan Lebar : "))
4 luas = p*l
5 print(f"Luas Persegi Panjang : {luas}")
6
7 print ("Menghitung Luas Segitiga")
8 a = int(input("Masukkan Alas : "))
9 t = int(input("Masukkan Tinggi : "))
10 luas = a*t
11 print(f"Luas Segitiga : {luas}")
12
13 print ("Menghitung Luas Lingkaran")
14 r = int(input("Masukkan Jari jari : "))
15 luas = 3.14*(r*r)
16 print(f"Luas Lingkaran : {luas}")
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
Menghitung Luas Persegi Panjang
Masukkan Panjang : 8
Masukkan Lebar : 16
Luas Persegi Panjang : 128
Menghitung Luas Segitiga
Masukkan Alas : 19
Masukkan Tinggi : 112
Luas Segitiga : 2128
Menghitung Luas Lingkaran
Masukkan Jari jari : 7
Luas Lingkaran : 153.86
PS C:\Users\ACER\Downloads>
Python 3.10.0 64-bit
Ln 16, Col 34 Spaces: 4 UTF-8 CRLF Python
Type here to search
25°C Hujan ringan
22:03
19/11/2021

3.

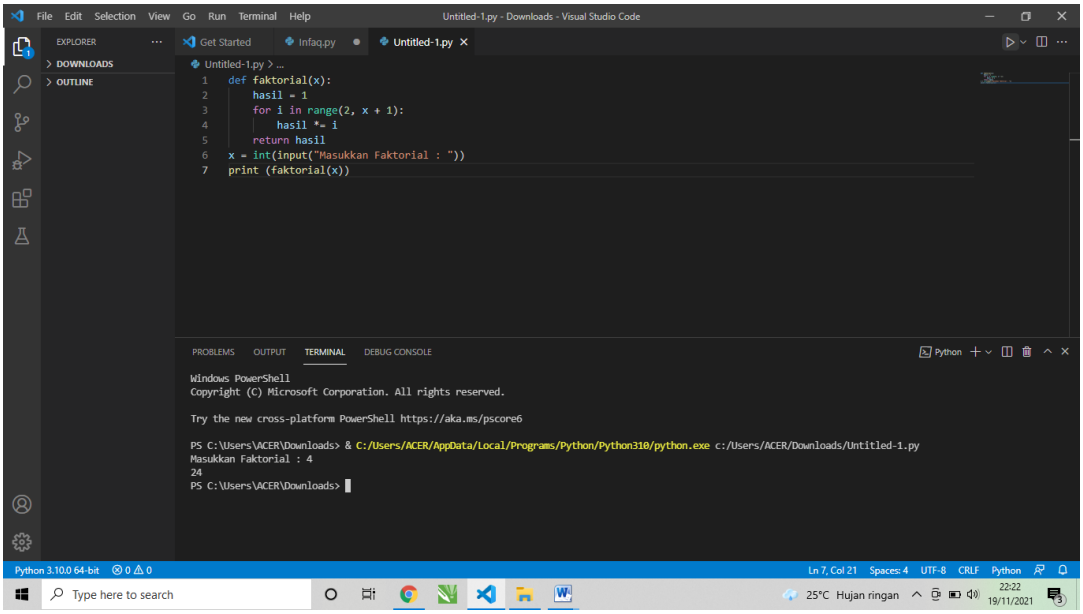

File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code
EXPLORER
DOWNLOADS
OUTLINE
Get Started
Infaq.py
Untitled-1.py
Untitled-1.py > ...
1 def luassgt(alas, tinggi):
2 luas = 0.5*alas*tinggi
3 print(f"Luas Segitiga adalah {luas}")
4
5 alas = int(input("Masukkan Nilai Alas = "))
6 tinggi = int(input("Masukkan Nilai Tinggi = "))
7
8 luassgt(alas,tinggi)
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
Masukkan Nilai Alas = 17
Masukkan Nilai Tinggi = 22
Luas Segitiga adalah 187.0
PS C:\Users\ACER\Downloads>
Python 3.10.0 64-bit
Ln 8, Col 21 Spaces: 4 UTF-8 CRLF Python
Type here to search
25°C Hujan ringan
22:04
19/11/2021

4.


File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code
EXPLORER
DOWNLOADS
OUTLINE
Get Started
Infaq.py
Untitled-1.py
Untitled-1.py > ...
1 N = int(input("Banyak Data = "))
2
3 data = []
4 for i in range(0, N):
5 nilai = int(input("Masukkan data ke-%d: " % (i+1)))
6 data.append(nilai)
7
8 max_number = max(data)
9
10 print(f"Jadi angka Terbesar dari semua bilangan adalah {max_number}")
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
Banyak Data = 4
Masukkan data ke-1: 4
Masukkan data ke-2: 7
Masukkan data ke-3: 9
Masukkan data ke-4: 5
Jadi angka Terbesar dari semua bilangan adalah 9
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
Banyak Data =
Python 3.10.0 64-bit
Ln 10, Col 70 Spaces: 4 UTF-8 CRLF Python
Type here to search
25°C Hujan ringan
22:07
19/11/2021

5.

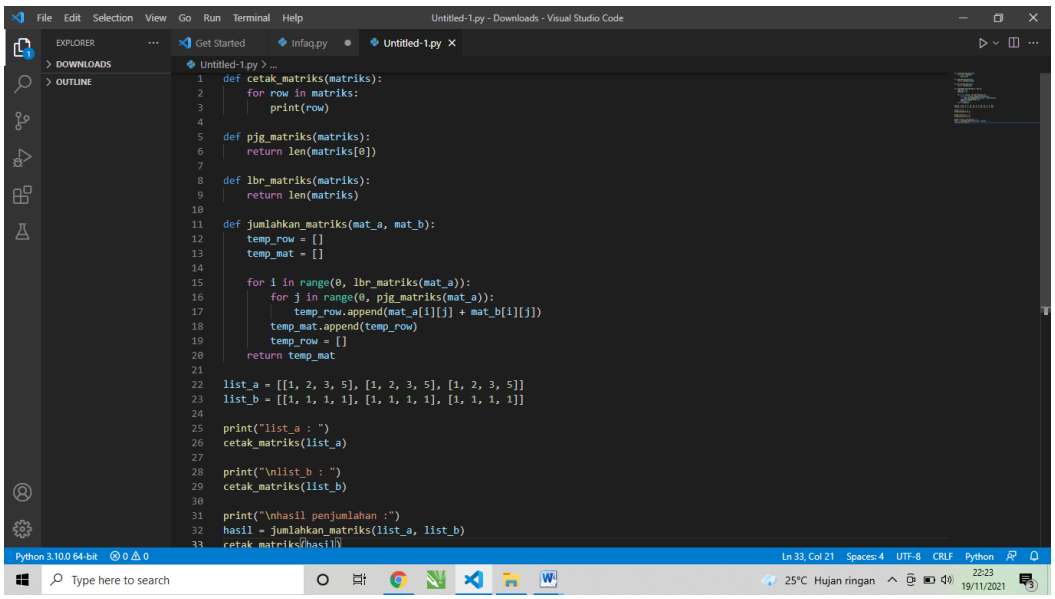
6.



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

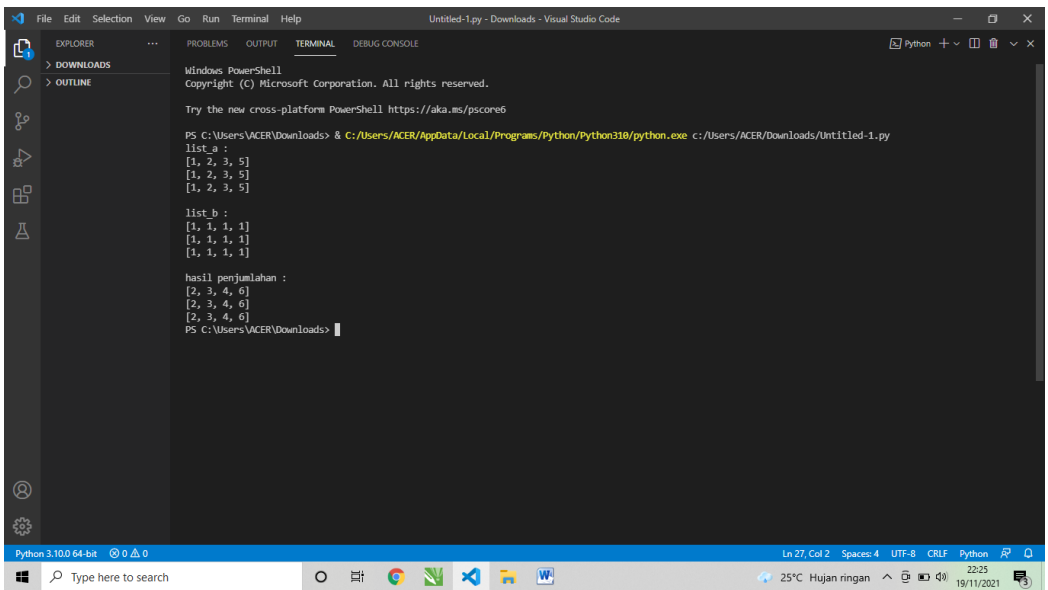
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
Masukkan Faktorial : 4
24
PS C:\Users\ACER\Downloads>
```

7.



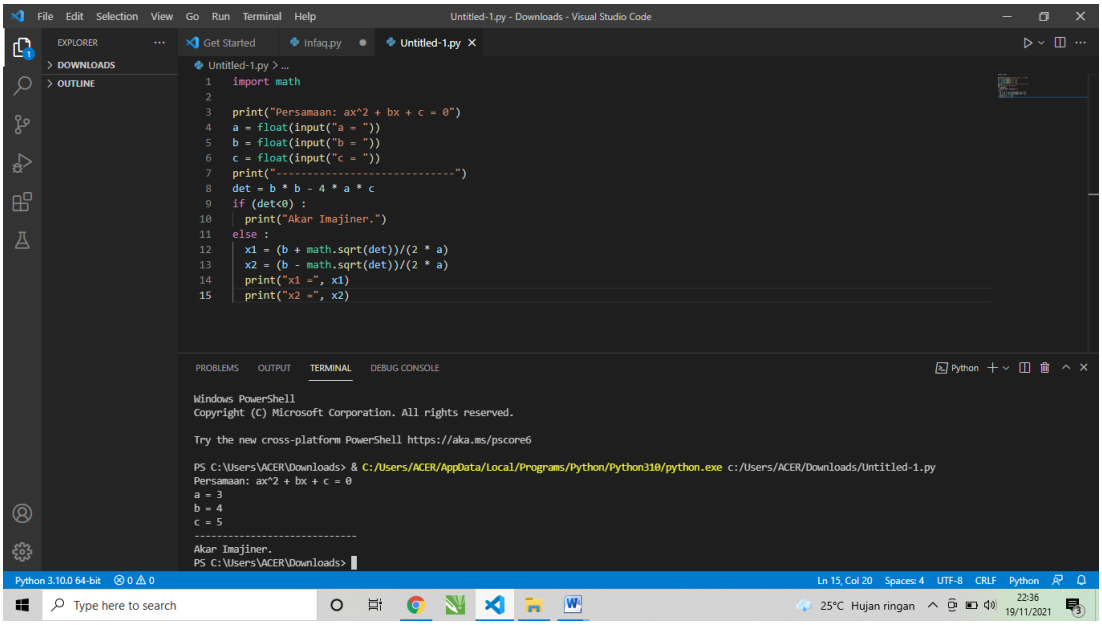
```
def cetak_matriks(matriks):
    for row in matriks:
        print(row)

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)
```

outputnya:



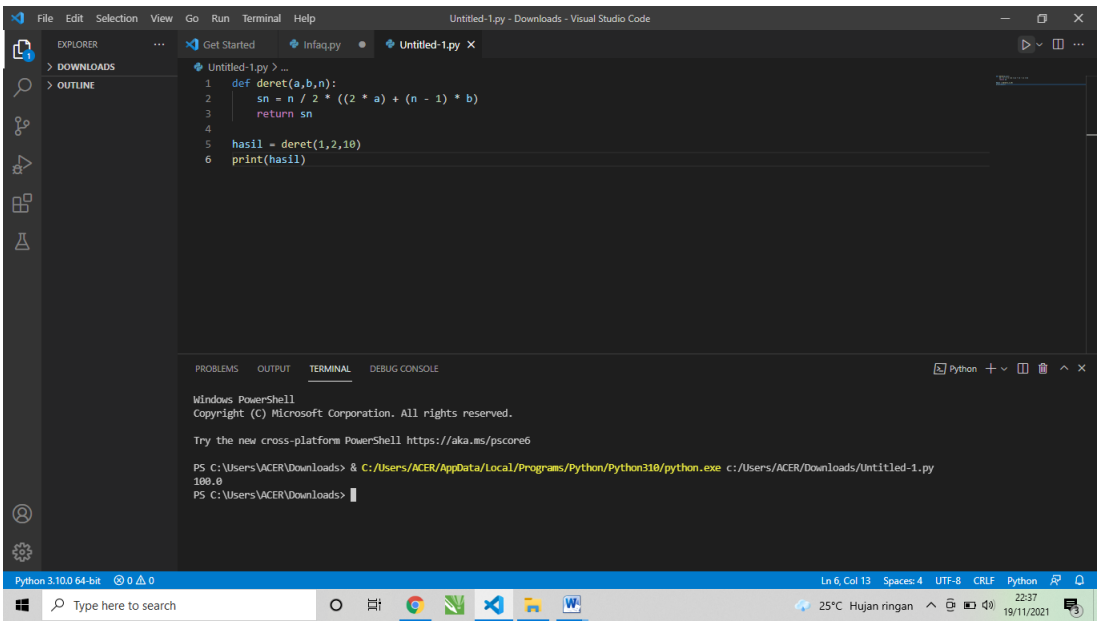
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.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:\Users\ACER\Downloads>
```

8.


File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code
EXPLORER
DOWNLOADS
OUTLINE
Get Started
Infaq.py
Untitled-1.py
Untitled-1.py > ...
1 import math
2
3 print("Persamaan: ax^2 + bx + c = 0")
4 a = float(input("a = "))
5 b = float(input("b = "))
6 c = float(input("c = "))
7 print("----------")
8 det = b * b - 4 * a * c
9 if (det<0) :
10 print("Akar Imajiner.")
11 else :
12 x1 = (b + math.sqrt(det))/(2 * a)
13 x2 = (b - math.sqrt(det))/(2 * a)
14 print("x1 =", x1)
15 print("x2 =", x2)
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
Persamaan: ax^2 + bx + c = 0
a = 3
b = 4
c = 5

Akar Imajiner.
PS C:\Users\ACER\Downloads>
Python 3.10.0 64-bit
Ln 15, Col 20 Spaces: 4 UTF-8 CRLF Python
Type here to search
25°C Hujan ringan
22:36
19/11/2021

9.


File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code
EXPLORER
DOWNLOADS
OUTLINE
Get Started
Infaq.py
Untitled-1.py
Untitled-1.py > ...
1 def deret(a,b,n):
2 sn = n / 2 * ((2 * a) + (n - 1) * b)
3 return sn
4
5 hasil = deret(1,2,10)
6 print(hasil)
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-1.py
100.0
PS C:\Users\ACER\Downloads>
Python 3.10.0 64-bit
Ln 6, Col 13 Spaces: 4 UTF-8 CRLF Python
Type here to search
25°C Hujan ringan
22:37
19/11/2021