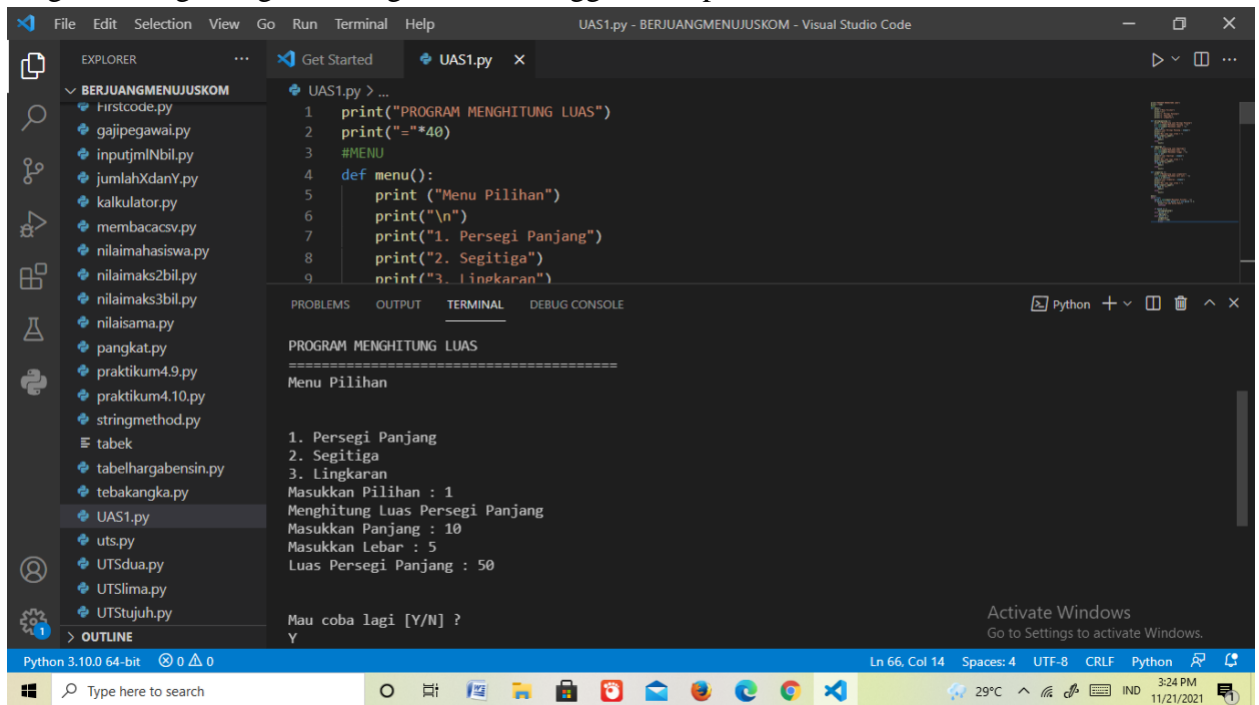


Nama : Virna Febri Andini

Nim : 20.01.013.017

Kelas : Kecerdasan Buatan B

1. Program menghitung luas bangun datar menggunakan prosedur dalam satu file



The screenshot shows the Visual Studio Code interface with a file named `UAS1.py` open. The Explorer panel on the left shows a folder named `BERJUANGMENUJUSKOM` containing various Python files. The main editor displays the code for `UAS1.py`, which includes a menu function and a main loop. The terminal window at the bottom shows the output of the program, which prompts the user to choose an option and then calculates the area of a rectangle based on the input.

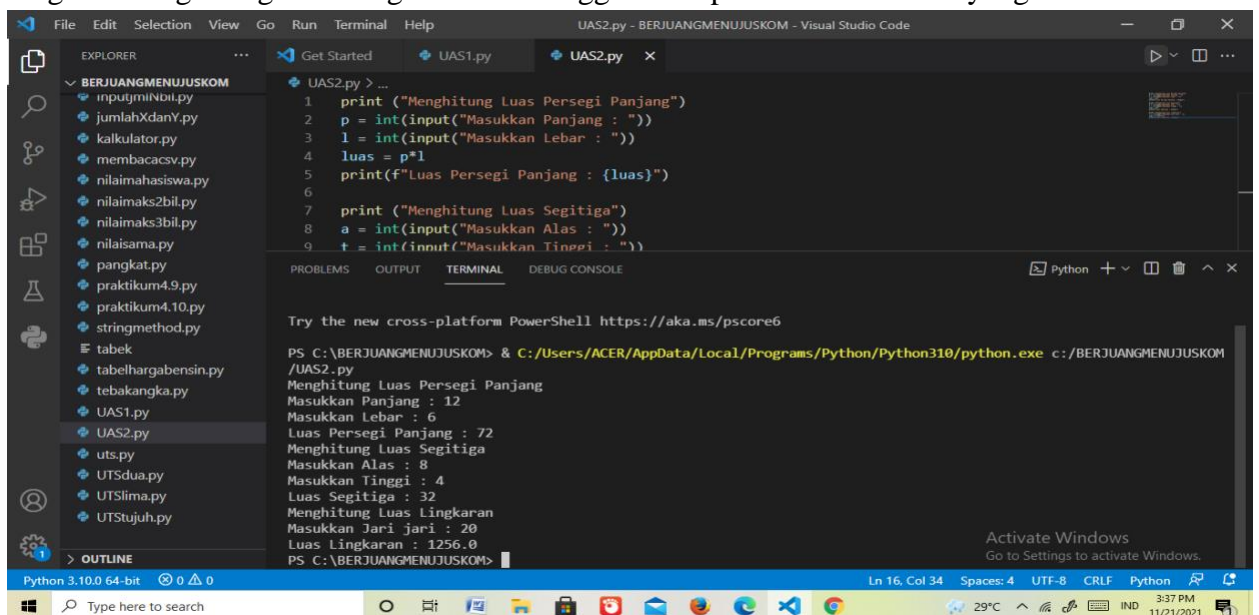
```
UAS1.py > ...
1 print("PROGRAM MENGHITUNG LUAS")
2 print("=="*40)
3 #MENU
4 def menu():
5     print ("Menu Pilihan")
6     print("\n")
7     print("1. Persegi Panjang")
8     print("2. Segitiga")
9     print("3. Lingkaran")

PROGRAM MENGHITUNG LUAS
=====
Menu Pilihan

1. Persegi Panjang
2. Segitiga
3. Lingkaran
Masukkan Pilihan : 1
Menghitung Luas Persegi Panjang
Masukkan Panjang : 10
Masukkan Lebar : 5
Luas Persegi Panjang : 50

Mau coba lagi [Y/N] ?
Y
```

2. Program menghitung luas bangun datar menggunakan prosedur dalam file yang berbeda



The screenshot shows the Visual Studio Code interface with two files open: `UAS1.py` and `UAS2.py`. The Explorer panel on the left shows the same folder structure as in the first screenshot. The main editor displays the code for `UAS2.py`, which includes functions for calculating the area of a rectangle, a triangle, and a circle. The terminal window at the bottom shows the output of the program, which prompts the user to choose an option and then calculates the area of a rectangle based on the input.

```
UAS2.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 : "))
```

3. Program menghitung luas segitiga

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'BERJUANGMENUJUSKOM'. The main editor displays a file named 'UAS3.py' with the following Python code:

```
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)
```

The bottom panel shows the 'TERMINAL' output, which includes the Windows PowerShell prompt and the execution of the script:

```
PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UAS3.py
Masukkan Nilai Alas = 8
Masukkan Nilai Tinggi = 10
Luas Segitiga adalah 40.0
PS C:\BERJUANGMENUJUSKOM>
```

4. Program mencari nilai tertinggi dari kelompok data menggunakan list

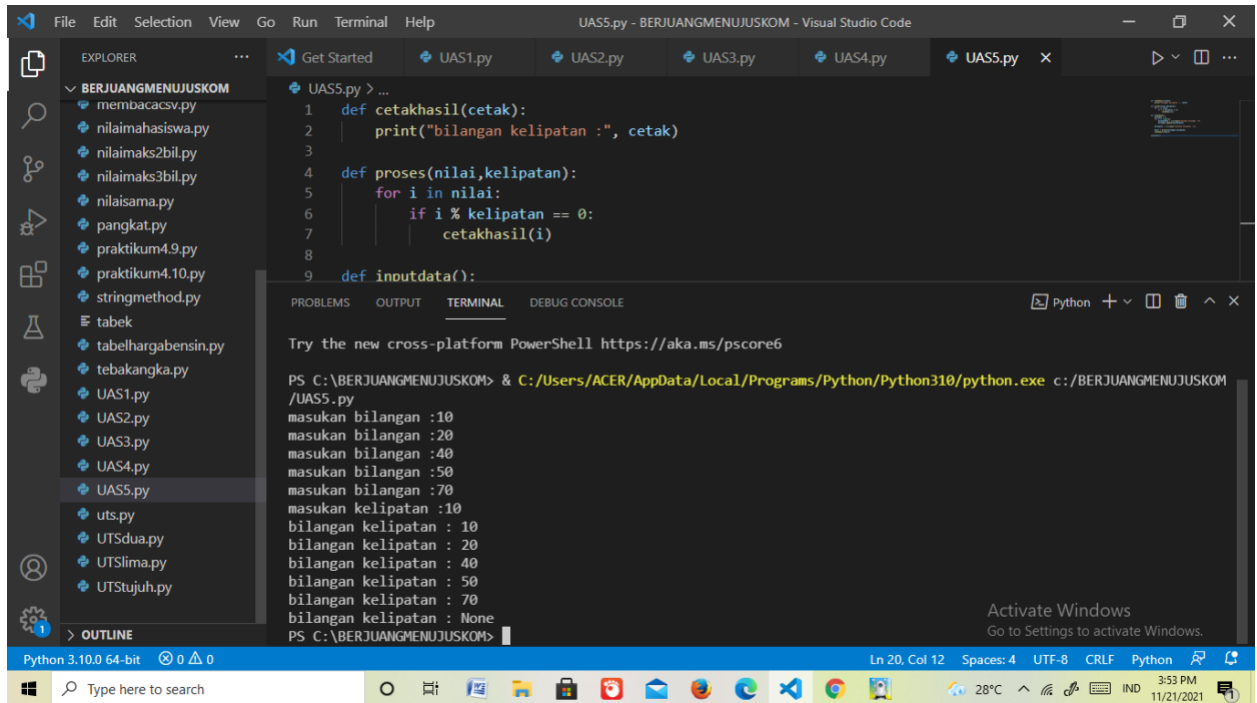
The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'BERJUANGMENUJUSKOM'. The main editor displays a file named 'UAS4.py' with the following Python code:

```
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
```

The bottom panel shows the 'TERMINAL' output, which includes the Windows PowerShell prompt and the execution of the script:

```
PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UAS4.py
Banyak Data = 8
Masukkan data ke-1: 2
Masukkan data ke-2: 4
Masukkan data ke-3: 6
Masukkan data ke-4: 8
Masukkan data ke-5: 10
Masukkan data ke-6: 12
Masukkan data ke-7: 14
Masukkan data ke-8: 16
Jadi angka Terbesar dari semua bilangan adalah 16
PS C:\BERJUANGMENUJUSKOM>
```

5. Program menampilkan bilangan kelipatan



```
File Edit Selection View Go Run Terminal Help
UAS5.py - BERJUANGMENUJUSKOM - Visual Studio Code

EXPLORER
BERJUANGMENUJUSKOM
  ▸ membacacsv.py
  ▸ nilaimahasiswa.py
  ▸ nilaimaks2bil.py
  ▸ nilaimaks3bil.py
  ▸ nilaisama.py
  ▸ pangkat.py
  ▸ praktikum4.9.py
  ▸ praktikum4.10.py
  ▸ stringmethod.py
  ▸ tabek
  ▸ tabelhargabensin.py
  ▸ tebakangka.py
  ▸ UAS1.py
  ▸ UAS2.py
  ▸ UAS3.py
  ▸ UAS4.py
  ▸ UAS5.py
  ▸ uts.py
  ▸ UTSdua.py
  ▸ UTSlima.py
  ▸ UTStujuh.py
  ▸ OUTLINE

UAS5.py > ...
1 def cetakhasil(cetak):
2     print("bilangan kelipatan :", cetak)
3
4 def proses(nilai,kelipatan):
5     for i in nilai:
6         if i % kelipatan == 0:
7             cetakhasil(i)
8
9 def inoutdata():
10
11
12
13
14
15
16
17
18
19
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24
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100

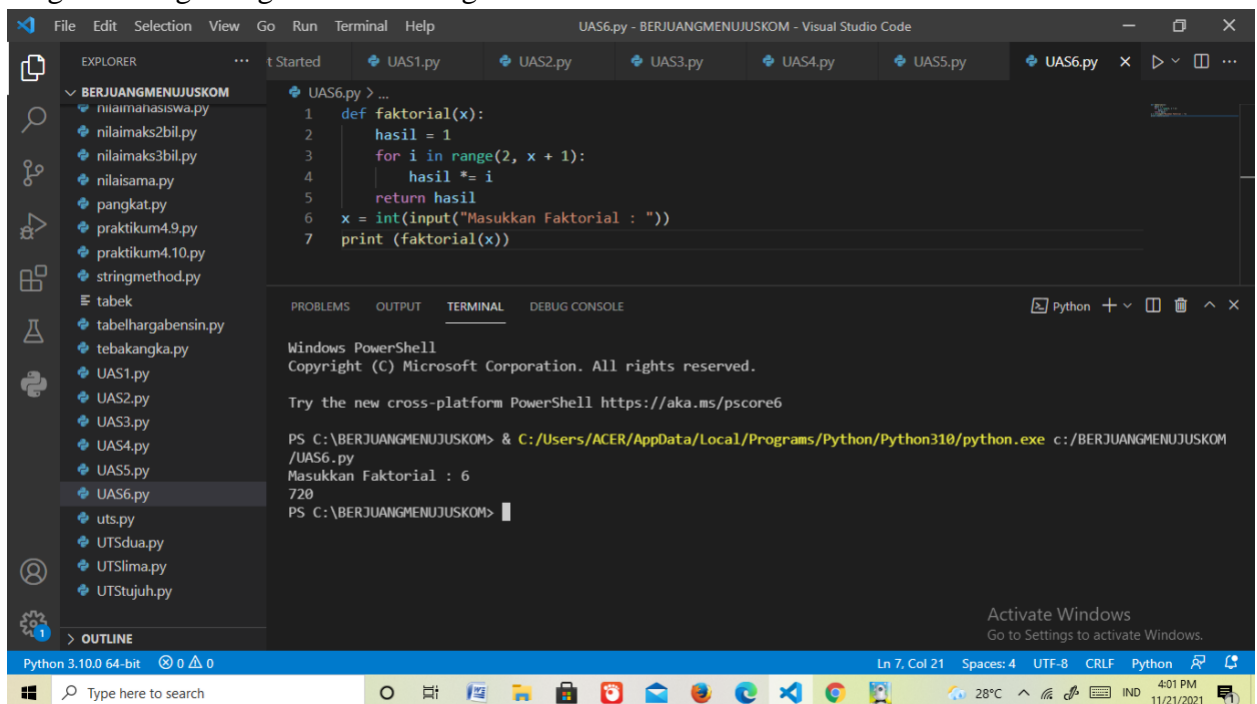
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python + - [ ] [x] [^] [v] [x]

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

PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UAS5.py
masukan bilangan :10
masukan bilangan :20
masukan bilangan :40
masukan bilangan :50
masukan bilangan :70
masukan kelipatan :10
bilangan kelipatan : 10
bilangan kelipatan : 20
bilangan kelipatan : 40
bilangan kelipatan : 50
bilangan kelipatan : 70
bilangan kelipatan : None
PS C:\BERJUANGMENUJUSKOM>

Python 3.10.0 64-bit [ ] [x] [^] [v] [x]
Ln 20, Col 12 Spaces: 4 UTF-8 CRLF Python [ ] [x] [^] [v] [x]
Type here to search [ ] [x] [^] [v] [x]
28°C [ ] [x] [^] [v] [x]
IND 3:53 PM 11/21/2021 [ ] [x] [^] [v] [x]
```

6. Program menghitung faktorial bilangan



```
File Edit Selection View Go Run Terminal Help
UAS6.py - BERJUANGMENUJUSKOM - Visual Studio Code

EXPLORER
BERJUANGMENUJUSKOM
  ▸ nilaimahasiswa.py
  ▸ nilaimaks2bil.py
  ▸ nilaimaks3bil.py
  ▸ nilaisama.py
  ▸ pangkat.py
  ▸ praktikum4.9.py
  ▸ praktikum4.10.py
  ▸ stringmethod.py
  ▸ tabek
  ▸ tabelhargabensin.py
  ▸ tebakangka.py
  ▸ UAS1.py
  ▸ UAS2.py
  ▸ UAS3.py
  ▸ UAS4.py
  ▸ UAS5.py
  ▸ UAS6.py
  ▸ uts.py
  ▸ UTSdua.py
  ▸ UTSlima.py
  ▸ UTStujuh.py
  ▸ OUTLINE

UAS6.py > ...
1 def faktorial(x):
2     hasil = 1
3     for i in range(2, x + 1):
4         hasil *= i
5     return hasil
6 x = int(input("Masukkan Faktorial : "))
7 print (faktorial(x))
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
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99
100

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python + - [ ] [x] [^] [v] [x]

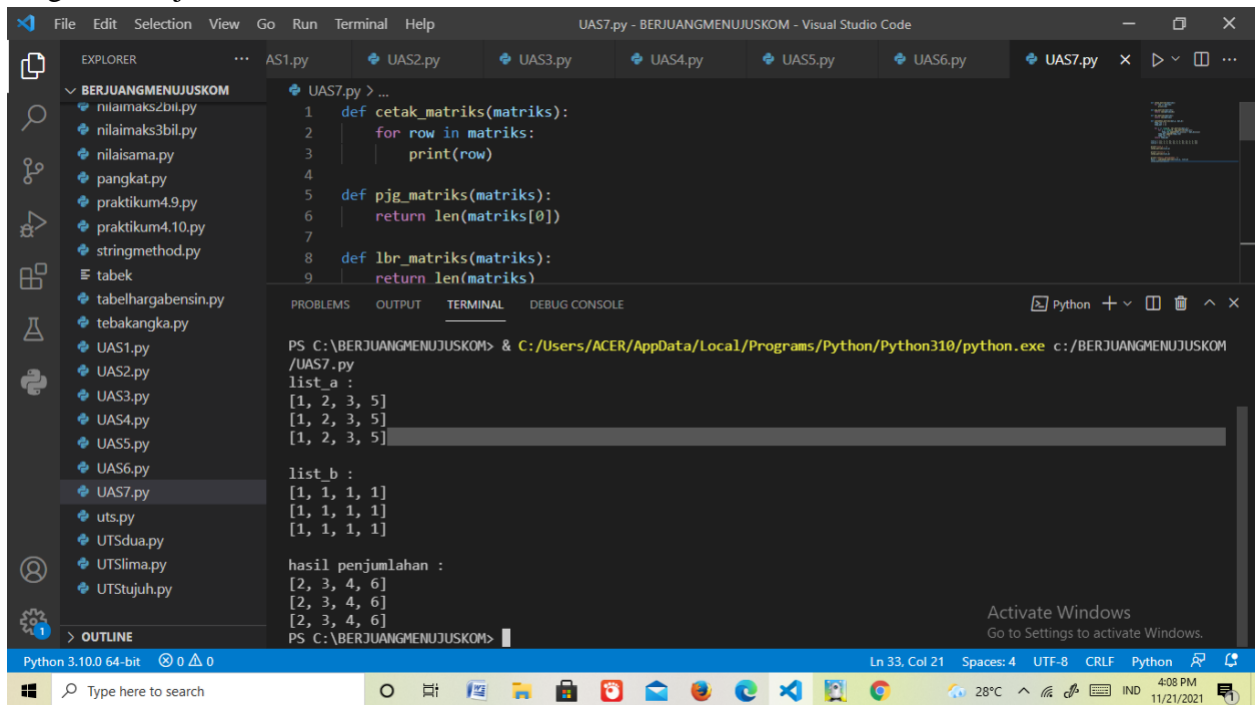
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UAS6.py
Masukkan Faktorial : 6
720
PS C:\BERJUANGMENUJUSKOM>

Python 3.10.0 64-bit [ ] [x] [^] [v] [x]
Ln 7, Col 21 Spaces: 4 UTF-8 CRLF Python [ ] [x] [^] [v] [x]
Type here to search [ ] [x] [^] [v] [x]
28°C [ ] [x] [^] [v] [x]
IND 4:01 PM 11/21/2021 [ ] [x] [^] [v] [x]
```

7. Program menjumlahkan data antara dua buah list



The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'BERJUANGMENUJUSKOM'. The main editor displays the file 'UAS7.py' with the following Python code:

```
1 def cetak_matriks(matriks):
2     for row in matriks:
3         print(row)
4
5 def pjg_matriks(matriks):
6     return len(matriks[0])
7
8 def lbr_matriks(matriks):
9     return len(matriks)
```

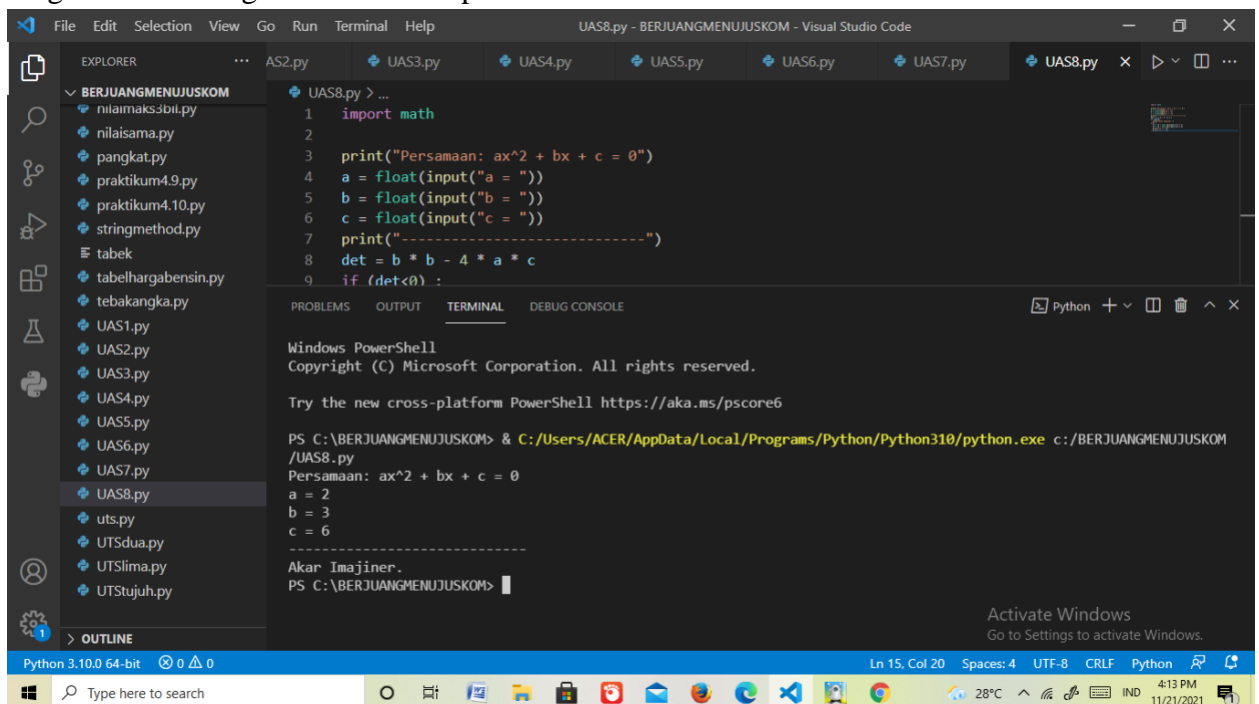
The terminal at the bottom shows the execution of the program:

```
PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UAS7.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:\BERJUANGMENUJUSKOM>
```

8. Program menghitung akar dari suatu persamaan



The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'BERJUANGMENUJUSKOM'. The main editor displays the file 'UAS8.py' with the following Python code:

```
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) :
```

The terminal at the bottom shows the execution of the program:

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

PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UAS8.py
Persamaan: ax^2 + bx + c = 0
a = 2
b = 3
c = 6
-----
Akar Imaginer.
PS C:\BERJUANGMENUJUSKOM>
```

a. Program menampilkan jumlah deret aritmatika

The screenshot shows the Visual Studio Code interface with a project named 'BERJUANGMENUJUSKOM'. The Explorer sidebar on the left lists several Python files, with 'UASbonus.py' selected. The main editor displays the code for 'UASbonus.py', which defines a function 'deret(a,b,n)' to calculate the sum of an arithmetic series and then calls it with 'deret(1,2,10)'. The output '100.0' is visible in the terminal. The terminal window shows the command prompt 'PS C:\BERJUANGMENUJUSKOM>' and the execution of the script using 'python.exe'. The status bar at the bottom indicates 'Python 3.10.0 64-bit' and the file encoding is 'UTF-8'.

```
File Edit Selection View Go Run Terminal Help
UASbonus.py - BERJUANGMENUJUSKOM - Visual Studio Code

EXPLORER
  BERJUANGMENUJUSKOM
    nilaisama.py
    pangkat.py
    praktikum4.9.py
    praktikum4.10.py
    stringmethod.py
    tabek
    tabelhargabensin.py
    tebakangka.py
    UAS1.py
    UAS2.py
    UAS3.py
    UAS4.py
    UAS5.py
    UAS6.py
    UAS7.py
    UAS8.py
    UASbonus.py
    uts.py
    UTSdua.py
    UTSlima.py
    UTStujuh.py
  > OUTLINE

UASbonus.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 + - [ ] [x] [^] [v]

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

PS C:\BERJUANGMENUJUSKOM> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENUJUSKOM/UASbonus.py
100.0
PS C:\BERJUANGMENUJUSKOM>

Activate Windows
Go to Settings to activate Windows.

Python 3.10.0 64-bit 0 0 0
Ln 6, Col 13 Spaces: 4 UTF-8 CRLF Python
```