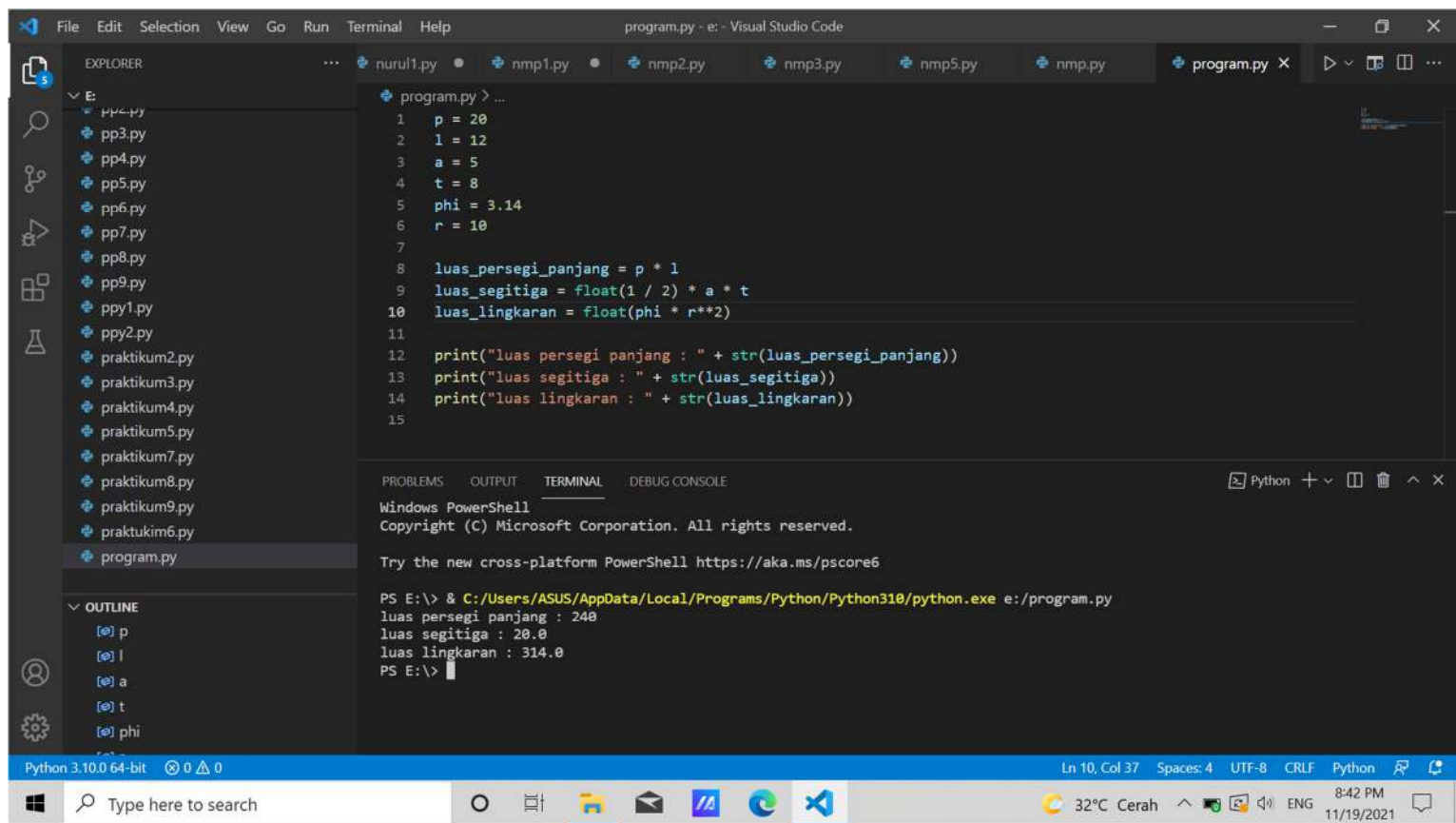


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1. Disini saya akan membuat program python tentang menghitung luas persegi panjang, segitiga dan lingkaran dengan menggunakan satu file



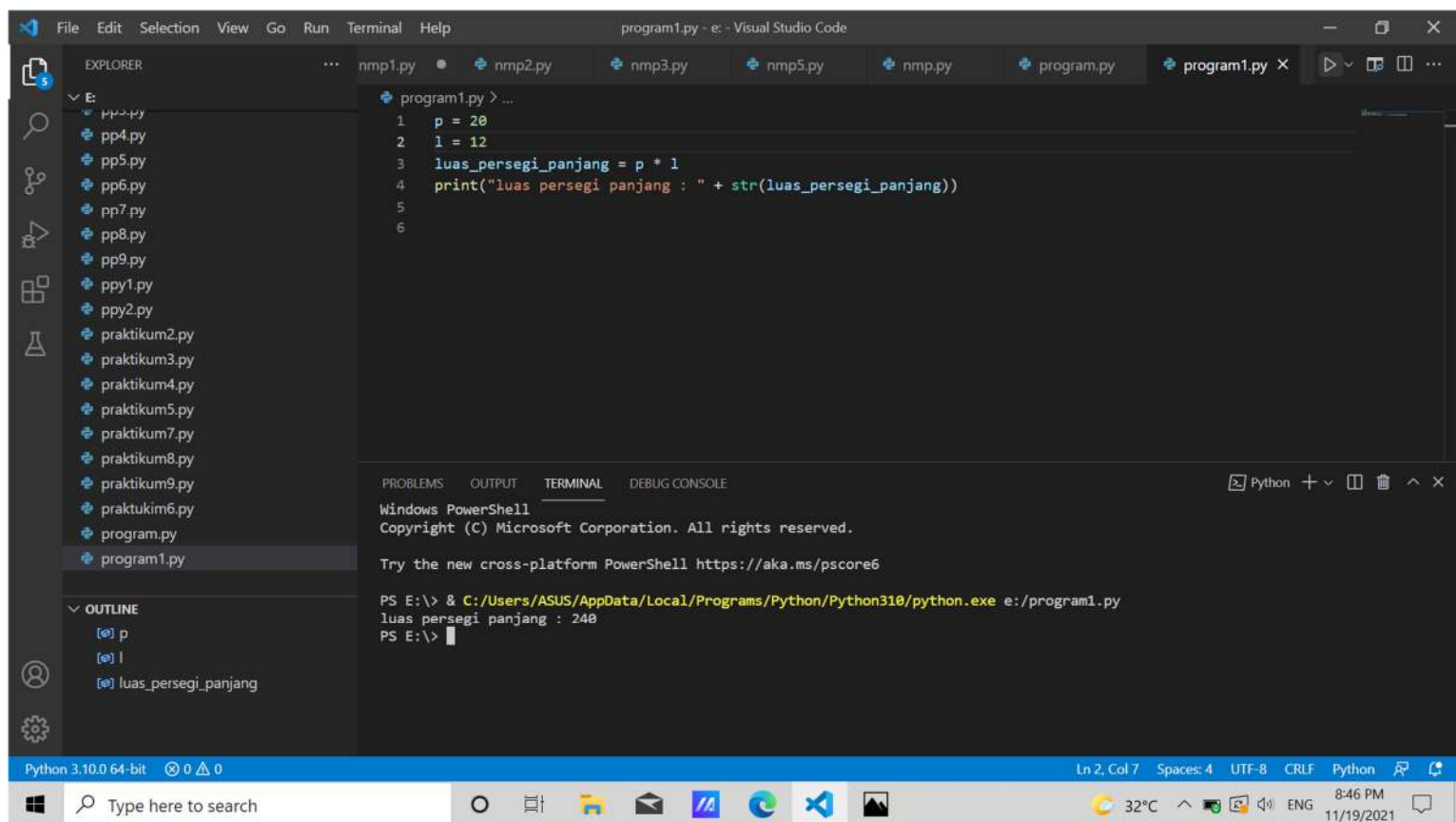
The screenshot shows the Visual Studio Code interface with a Python file named `program.py` open. The code defines variables for a rectangle's length (`p`), width (`l`), a triangle's base (`a`), height (`t`), and a circle's radius (`r`). It then calculates the area for each shape and prints the results.

```
1 p = 20
2 l = 12
3 a = 5
4 t = 8
5 phi = 3.14
6 r = 10
7
8 luas_persegi_panjang = p * l
9 luas_segitiga = float(1 / 2) * a * t
10 luas_lingkaran = float(phi * r**2)
11
12 print("luas persegi panjang : " + str(luas_persegi_panjang))
13 print("luas segitiga : " + str(luas_segitiga))
14 print("luas lingkaran : " + str(luas_lingkaran))
15
```

The terminal output shows the execution results:

```
PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/program.py
luas persegi panjang : 240
luas segitiga : 20.0
luas lingkaran : 314.0
PS E:\>
```

2. Disini saya akan membuat program python tentang modifikasi dari nomor satu dengan masing-masing terpisah filenya

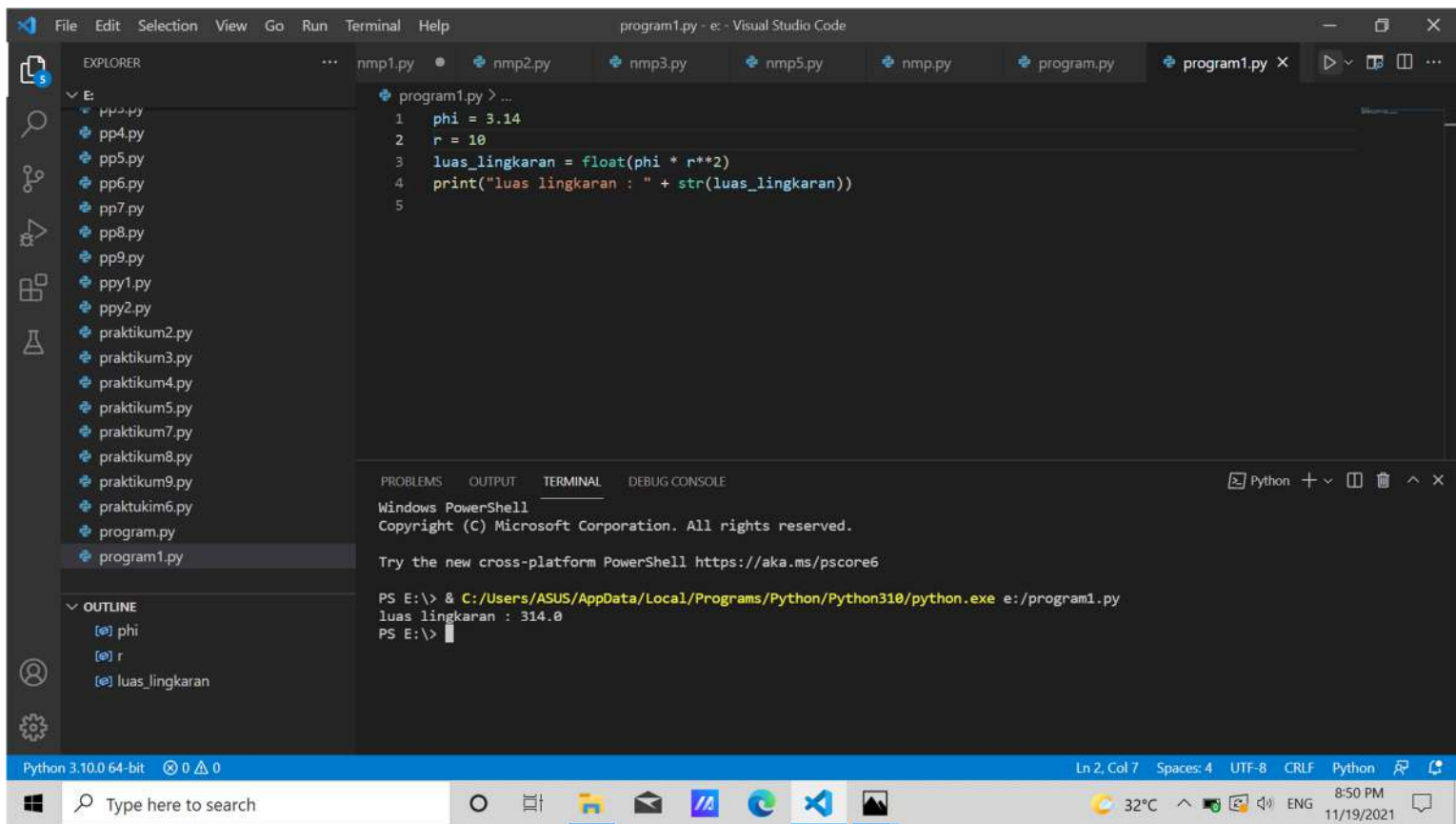
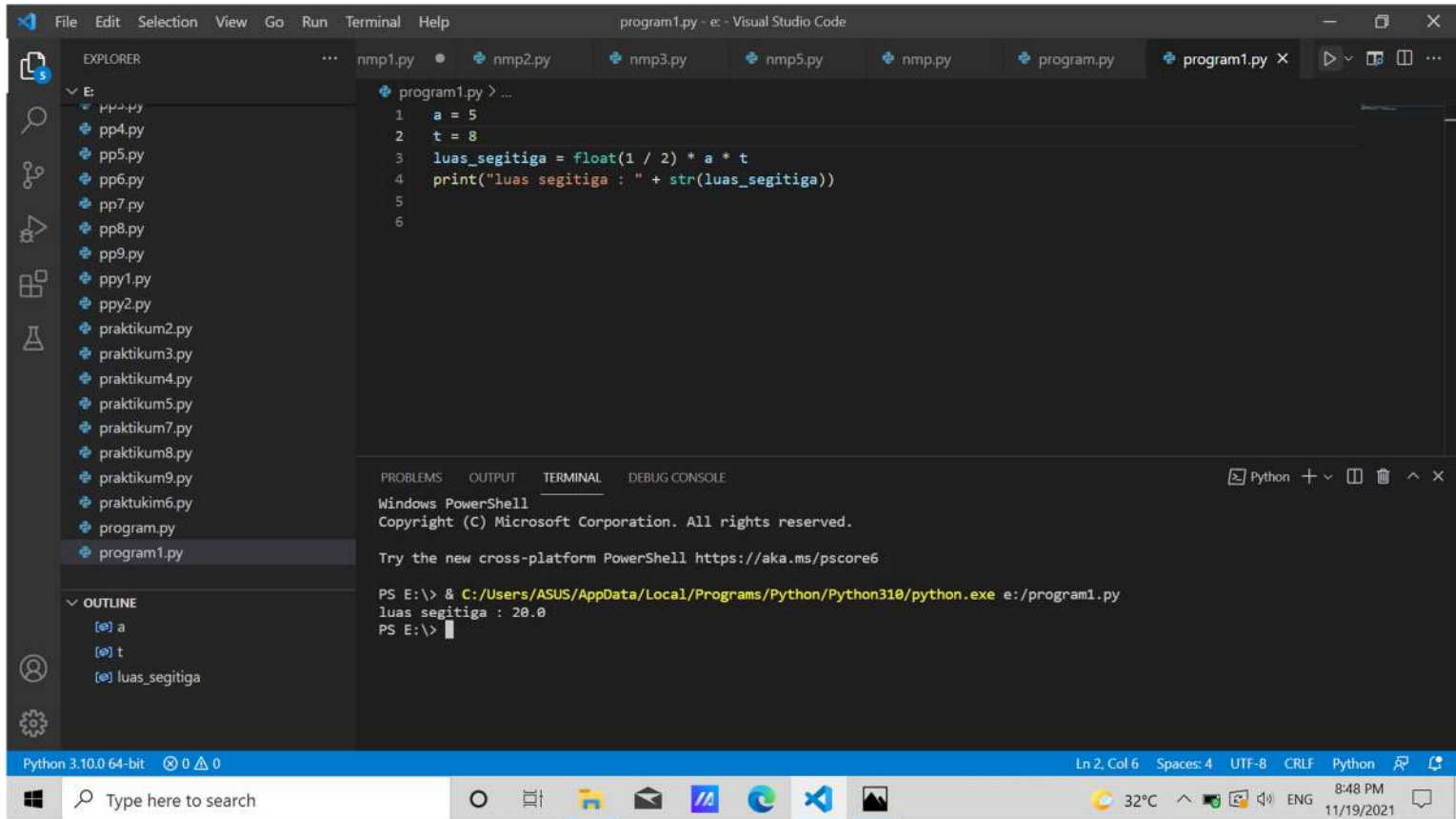


The screenshot shows the Visual Studio Code interface with a modified Python file named `program1.py` open. This file only contains the code to calculate the area of a rectangle.

```
1 p = 20
2 l = 12
3 luas_persegi_panjang = p * l
4 print("luas persegi panjang : " + str(luas_persegi_panjang))
5
6
```

The terminal output shows the execution result:

```
PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/program1.py
luas persegi panjang : 240
PS E:\>
```



3. Disini saya akan membuat program python tentang menghitung luas segitiga menggunakan fungsi dengan pralementernya adalah alas dan tinggi

The screenshot shows the Visual Studio Code interface with a Python file named `program2.py` open. The code defines a function to calculate the area of a triangle based on its base and height. The terminal window shows the execution of the program, where the user inputs a base of 34 and a height of 42, resulting in an area of 714.0.

```
program2.py > ...
1 a = float(input("masukkan nilai panjang alas : "))
2 t = float(input("masukkan nilai tinggi segitiga : "))
3 luas = float(1 / 2) * a * t
4 print("luas segitiga adalah : " + str(luas))
5
```

Terminal Output:

```
PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/program2.py
masukkan nilai panjang alas : 34
masukkan nilai tinggi segitiga : 42
luas segitiga adalah : 714.0
PS E:\>
```

4. Disini saya akan membuat program python tentang mencari nilai tertinggi dari sekelompok data menggunakan list

The screenshot shows the Visual Studio Code interface with a Python file named `program3.py` open. The code creates a list of numbers and uses the `max()` function to find the highest value. The terminal window shows the execution of the program, which outputs the maximum value of 80 from the list [10, 20, 50, 30, 60, 80].

```
program3.py > ...
1 n = [10,20,50,30,60,80]
2 print(n)
3 print("nilai terbesar adalah : ", max(n))
4
```

Terminal Output:

```
PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/program3.py
[10, 20, 50, 30, 60, 80]
nilai terbesar adalah : 80
PS E:\>
```

6. Disini saya akan membuat program python tentang menghitung factorial sebuah bilangan (input) menggunakan fungsi

The screenshot shows the Visual Studio Code interface with a Python file named `program4.py` open. The code defines a function to calculate the factorial of a number `n` using a `for` loop. The terminal window shows the command to run the program and the output for `n=25`.

```
program4.py > ...
1  n = int(input('Masukkan nilai n: '))
2  faktorial = 1
3
4  for i in range(1, n + 1):
5      faktorial *= i
6
7  print(f'{n}! = {faktorial}')
```

Terminal Output:

```
Windows PowerShell
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PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/program4.py
Masukkan nilai n: 25
25! = 15511210043330985984000000
PS E:\>
```

7. Disini saya akan membuat program python tentang menjumlahkan data antara dua buah list dengan menggunakan fungsi

The screenshot shows the Visual Studio Code interface with a Python file named `pratikum6.py` open. The code prompts the user for two numbers, converts them to floats, and calculates their sum. The terminal window shows the command to run the program and the output for inputs 50 and 20.

```
pratikum6.py > ...
1  # Program Penjumlahan Dua Bilangan
2  # Meminta inputan dari user
3  bil1 = input('Masukkan bilangan pertama: ')
4  bil2 = input('Masukkan bilangan kedua: ')
5  # Menjumlahkan bilangan
6  jumlah = float(bil1) + float(bil2)
7  # Menampilkan jumlah
8  print('Jumlah {0} + {1} adalah {2}'.format(bil1, bil2, jumlah))
9
10
```

Terminal Output:

```
Windows PowerShell
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PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/pratikum6.py
Masukkan bilangan pertama: 50
Masukkan bilangan kedua: 20
Jumlah 50 + 20 adalah 70.0
PS E:\>
```


8. Disini saya akan membuat program python tentang menghitung akar-akar dari persamaan kuadrat

The screenshot shows the Visual Studio Code interface with a Python file named `program8.py` open. The file contains a program that prints a title, a separator, a message, another separator, and then prompts the user for three inputs: `Nilai awal`, `Banyak suku`, and `Rasio`. It then defines a function `aritmatik(A,B,N)` that prints a sequence of numbers from `A` to `A+B+2` in increments of `N`. Finally, it calls the function with the user inputs.

```
program8.py > ...
1 print("\nPraktikum_Python_5_Nomor_8")
2 print("="*70)
3 print("belum tau pak :) yang akar permasalahan kuadrat")
4 print("="*70)
5 nilai_awal = int(input("Nilai awal : "))
6 banyak_suku = int(input("Banyak suku :"))
7 rasio = int(input("Rasio : "))
8 def aritmatik(A,B,N):
9     value = int(A)
10    for i in range(A,B+2):
11        print(value, end = ' ')
12        value +=N
13    aritmatik(nilai_awal, banyak_suku ,rasio)
```

The terminal window shows the execution of the program. It displays the title, separator, message, and separator again. Then, it shows the user inputs: `Nilai awal : 24`, `Banyak suku : 5`, and `Rasio : 14`. The program then prints the sequence of numbers from 24 to 31 in increments of 5.

```
Windows PowerShell
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PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/program8.py

Praktikum_Python_5_Nomor_8
=====
belum tau pak :) yang akar permasalahan kuadrat
=====
Nilai awal : 24
Banyak suku : 5
Rasio : 14
PS E:\>
```