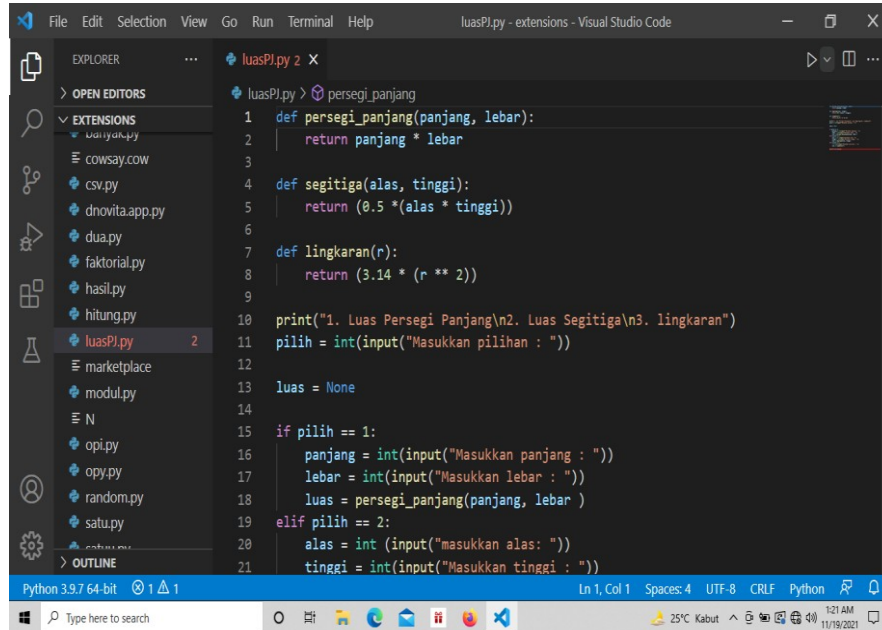


5. TUGAS PRAKTIKUM PYTHON V

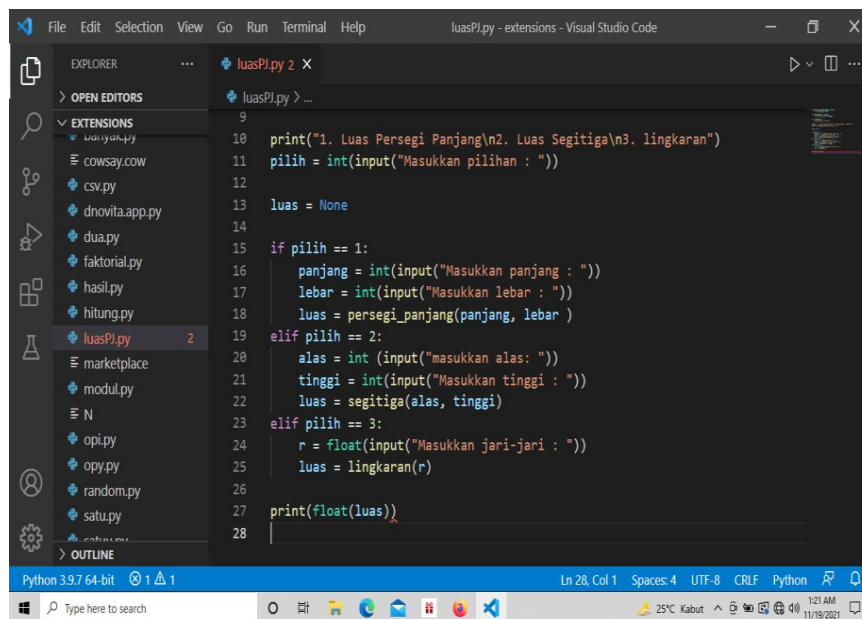
1. Program menghitung luas persegi panjang, segitiga, dan lingkaran dengan menggunakan prosedur.



```
File Edit Selection View Go Run Terminal Help luasPJ.py - extensions - Visual Studio Code

EXPLORER
> OPEN EDITORS
  luasPJ.py
  > EXTENSIONS
    uaiyuk.py
    cowsay.cow
    csv.py
    dnovita.app.py
    dua.py
    faktorial.py
    hasil.py
    hitung.py
    luasPJ.py 2
    marketplace
    modul.py
    N
    opi.py
    opy.py
    random.py
    satu.py
    > OUTLINE

luasPJ.py > persegi_panjang
1 def persegi_panjang(panjang, lebar):
2     return panjang * lebar
3
4 def segitiga(alas, tinggi):
5     return (0.5 * (alas * tinggi))
6
7 def lingkaran(r):
8     return (3.14 * (r ** 2))
9
10 print("1. Luas Persegi Panjang\n2. Luas Segitiga\n3. lingkaran")
11 pilih = int(input("Masukkan pilihan : "))
12
13 luas = None
14
15 if pilih == 1:
16     panjang = int(input("Masukkan panjang : "))
17     lebar = int(input("Masukkan lebar : "))
18     luas = persegi_panjang(panjang, lebar)
19 elif pilih == 2:
20     alas = int(input("masukkan alas: "))
21     tinggi = int(input("Masukkan tinggi : "))
```



```
File Edit Selection View Go Run Terminal Help luasPJ.py - extensions - Visual Studio Code

EXPLORER
> OPEN EDITORS
  luasPJ.py
  > EXTENSIONS
    uaiyuk.py
    cowsay.cow
    csv.py
    dnovita.app.py
    dua.py
    faktorial.py
    hasil.py
    hitung.py
    luasPJ.py 2
    marketplace
    modul.py
    N
    opi.py
    opy.py
    random.py
    satu.py
    > OUTLINE

luasPJ.py > ...
9
10 print("1. Luas Persegi Panjang\n2. Luas Segitiga\n3. lingkaran")
11 pilih = int(input("Masukkan pilihan : "))
12
13 luas = None
14
15 if pilih == 1:
16     panjang = int(input("Masukkan panjang : "))
17     lebar = int(input("Masukkan lebar : "))
18     luas = persegi_panjang(panjang, lebar)
19 elif pilih == 2:
20     alas = int(input("masukkan alas: "))
21     tinggi = int(input("Masukkan tinggi : "))
22     luas = segitiga(alas, tinggi)
23 elif pilih == 3:
24     r = float(input("Masukkan jari-jari : "))
25     luas = lingkaran(r)
26
27 print(float(luas))
28
```

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a list of Python files. The 'luasPJ.py' file is selected and has a count of 2. The terminal window is open, showing the execution of the script. The prompt is 'PS C:\Users\ASUS\.vscode\extensions>'. The command executed is '& "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/luasPJ.py'. The output shows a menu with three options: '1. Luas Persegi Panjang', '2. Luas Segitiga', and '3. lingkaran'. The user enters '1'. Then, the prompt is 'Masukkan pilihan : 1'. The user enters '6' for length, and the prompt is 'Masukkan panjang : 6'. The user enters '10' for width, and the prompt is 'Masukkan lebar : 10'. The final output is '60.0'.

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

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

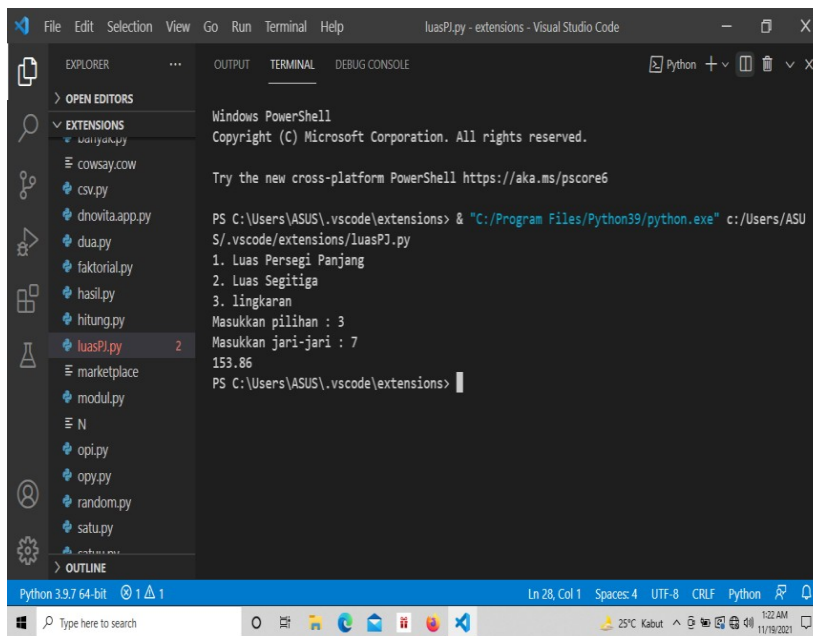
PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/luasPJ.py
1. Luas Persegi Panjang
2. Luas Segitiga
3. lingkaran
Masukkan pilihan : 1
Masukkan panjang : 6
Masukkan lebar : 10
60.0
PS C:\Users\ASUS\.vscode\extensions>
```

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a list of Python files. The 'luasPJ.py' file is selected and has a count of 2. The terminal window is open, showing the execution of the script. The prompt is 'PS C:\Users\ASUS\.vscode\extensions>'. The command executed is '& "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/luasPJ.py'. The output shows a menu with three options: '1. Luas Persegi Panjang', '2. Luas Segitiga', and '3. lingkaran'. The user enters '2'. Then, the prompt is 'Masukkan pilihan : 2'. The user enters '7' for base, and the prompt is 'masukkan alas: 7'. The user enters '12' for height, and the prompt is 'Masukkan tinggi : 12'. The final output is '42.0'.

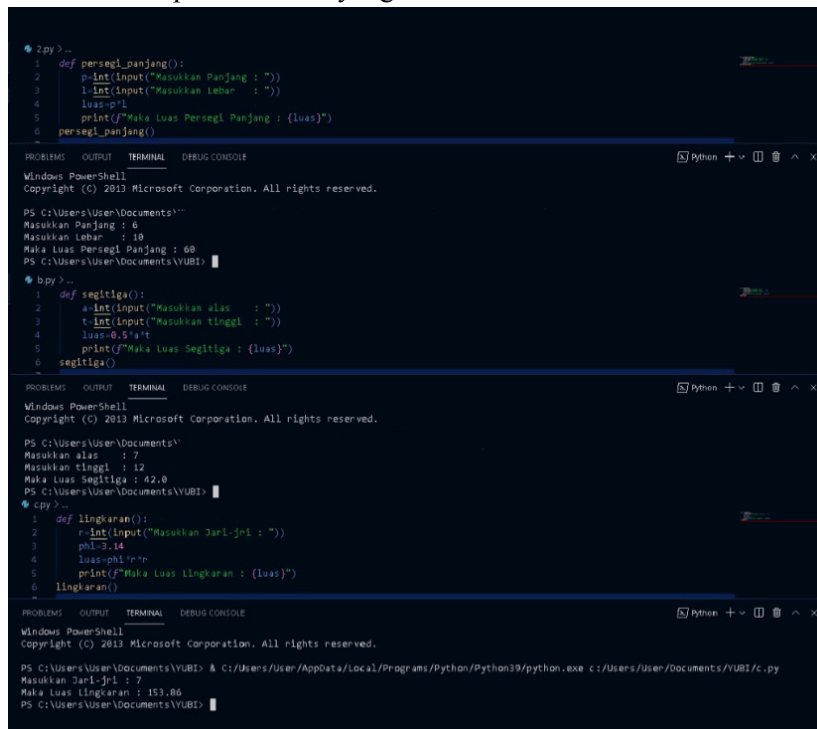
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

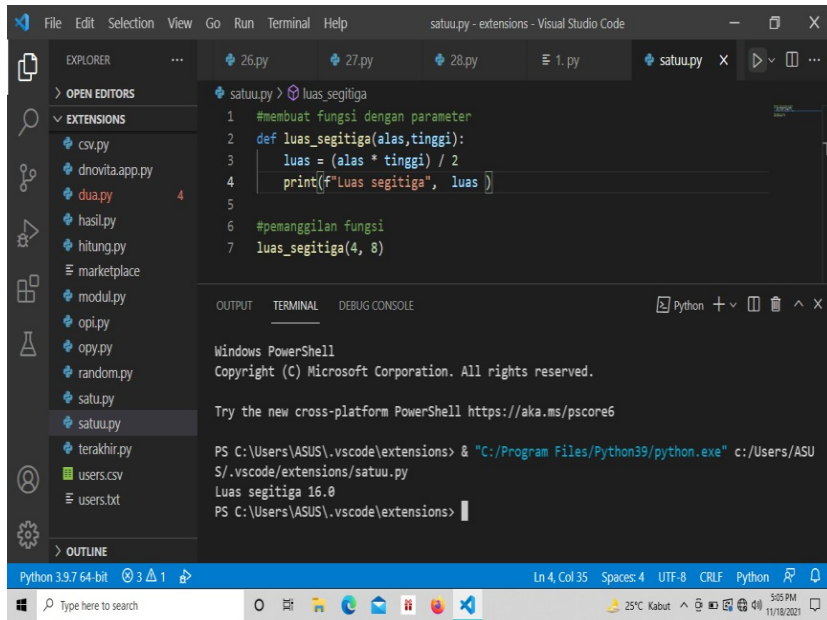
PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/luasPJ.py
1. Luas Persegi Panjang
2. Luas Segitiga
3. lingkaran
Masukkan pilihan : 2
masukkan alas: 7
Masukkan tinggi : 12
42.0
PS C:\Users\ASUS\.vscode\extensions>
```



2. Prosedur disimpandalam file yang berbeda.



3. Program menghitung luas segitiga menggunakan fungsi.



The screenshot shows the Visual Studio Code interface with a Python file named `satu.py` open. The code defines a function `luas_segitiga` that takes two parameters, `alas` (base) and `tinggi` (height), and returns the area. The function is then called with `luas_segitiga(4, 8)`. The terminal shows the execution of the program, which outputs `Luas segitiga 16.0`.

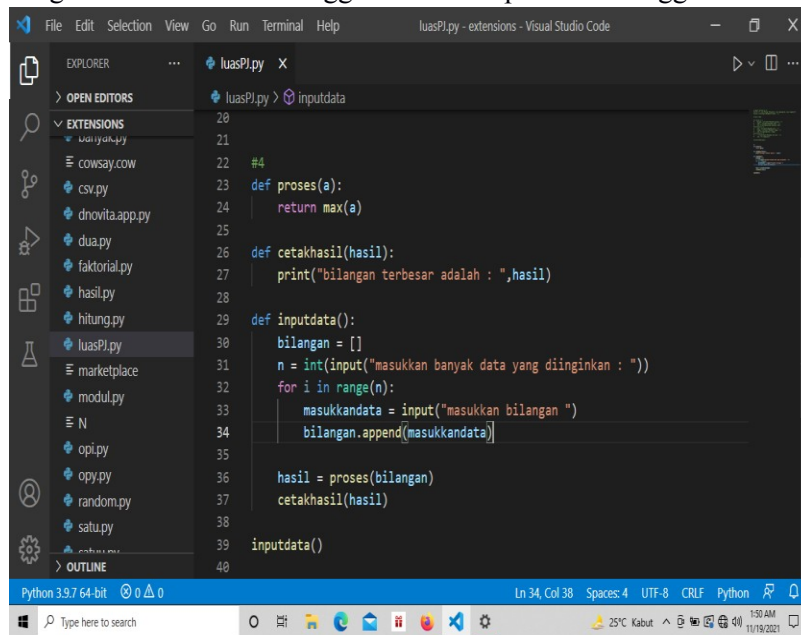
```
1 #membuat fungsi dengan parameter
2 def luas_segitiga(alas,tinggi):
3     luas = (alas * tinggi) / 2
4     print(f"Luas segitiga", luas)
5
6 #pemanggilan fungsi
7 luas_segitiga(4, 8)
```

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

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

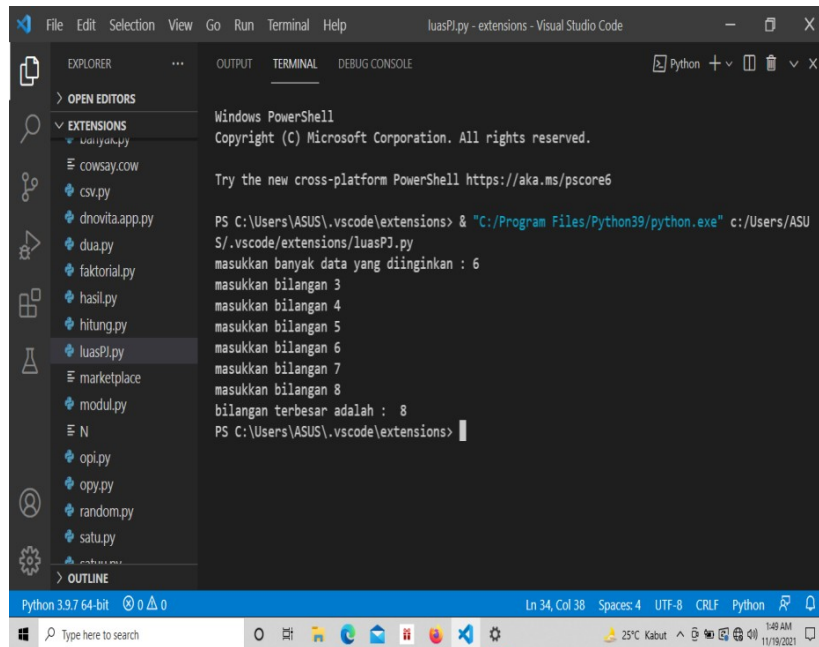
PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/satu.py
Luas segitiga 16.0
PS C:\Users\ASUS\.vscode\extensions>
```

4. Program mencari nilai tertinggi dari sekelompok data menggunakan list



The screenshot shows the Visual Studio Code interface with a Python file named `luasPJ.py` open. The code defines three functions: `proses` (which returns the maximum value of a list), `cetakhasil` (which prints the result), and `inputdata` (which takes user input and appends it to a list). The `inputdata` function calls `proses` and `cetakhasil` to find and display the maximum value.

```
20
21
22 #4
23 def proses(a):
24     return max(a)
25
26 def cetakhasil(hasil):
27     print("bilangan terbesar adalah : ",hasil)
28
29 def inputdata():
30     bilangan = []
31     n = int(input("masukkan banyak data yang diinginkan : "))
32     for i in range(n):
33         masukkandata = input("masukkan bilangan ")
34         bilangan.append(masukkandata)
35
36     hasil = proses(bilangan)
37     cetakhasil(hasil)
38
39 inputdata()
40
```

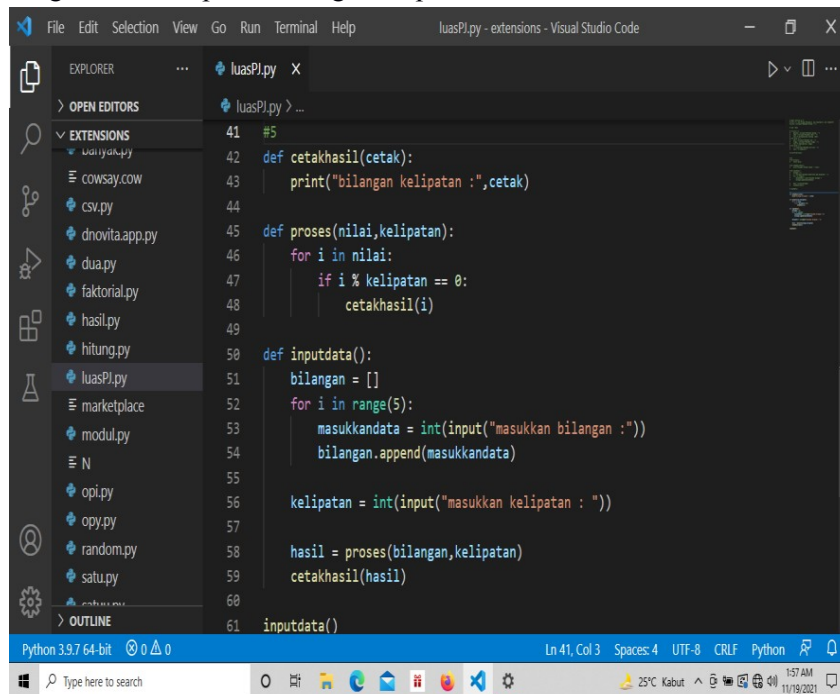


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/luasPl.py
masukkan banyak data yang diinginkan : 6
masukkan bilangan 3
masukkan bilangan 4
masukkan bilangan 5
masukkan bilangan 6
masukkan bilangan 7
masukkan bilangan 8
bilangan terbesar adalah : 8
PS C:\Users\ASUS\.vscode\extensions>
```

5. Program menampilkanbilangankelipatan X



```
41 #5
42 def cetakhasil(cetak):
43     print("bilangan kelipatan :",cetak)
44
45 def proses(nilai,kelipatan):
46     for i in nilai:
47         if i % kelipatan == 0:
48             cetakhasil(i)
49
50 def inputdata():
51     bilangan = []
52     for i in range(5):
53         masukkandata = int(input("masukkan bilangan :"))
54         bilangan.append(masukkandata)
55
56     kelipatan = int(input("masukkan kelipatan : "))
57
58     hasil = proses(bilangan,kelipatan)
59     cetakhasil(hasil)
60
61 inputdata()
```



```
1 #deret aritmatika
2
3 A = 2
4 B = 4
5 N = 0
6
7 while True :
8     if N < 10:
9         print(A)
10        N = N + 1
11        A = A + B
12    else :
13        break
14
15 print("Sn = {}". format(hasil))
```

```
Windows PowerShell

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

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASUS/.vscode/extensions/luasPJ.py
2
6
10
14
18
22
26
30
34
38
Traceback (most recent call last):
  File "c:/Users/ASUS/.vscode/extensions/luasPJ.py", line 15, in <module>
    print("Sn = {}". format(hasil))
NameError: name 'hasil' is not defined
PS C:\Users\ASUS\.vscode\extensions>
```