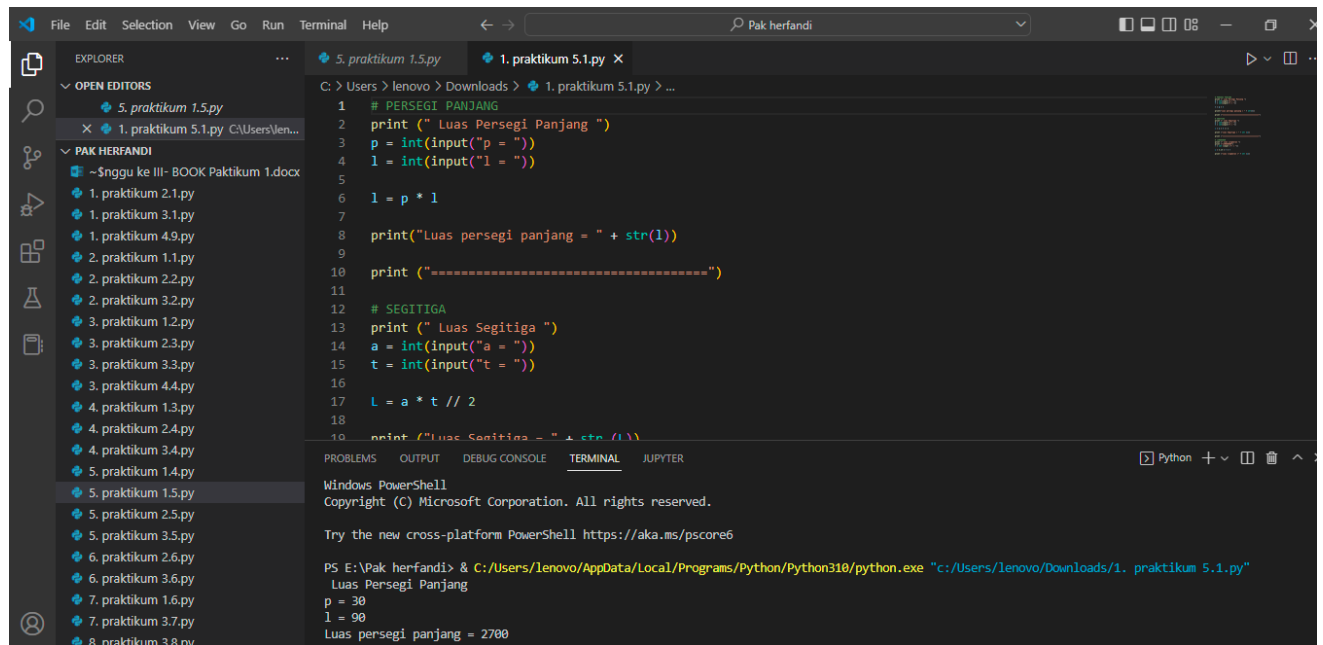


Nama : Nisrina Nisyah
Nim 211001010
Kelas : D/kecerdasan buatan

➤ Praktikum 5

1. Praktikum 5.1

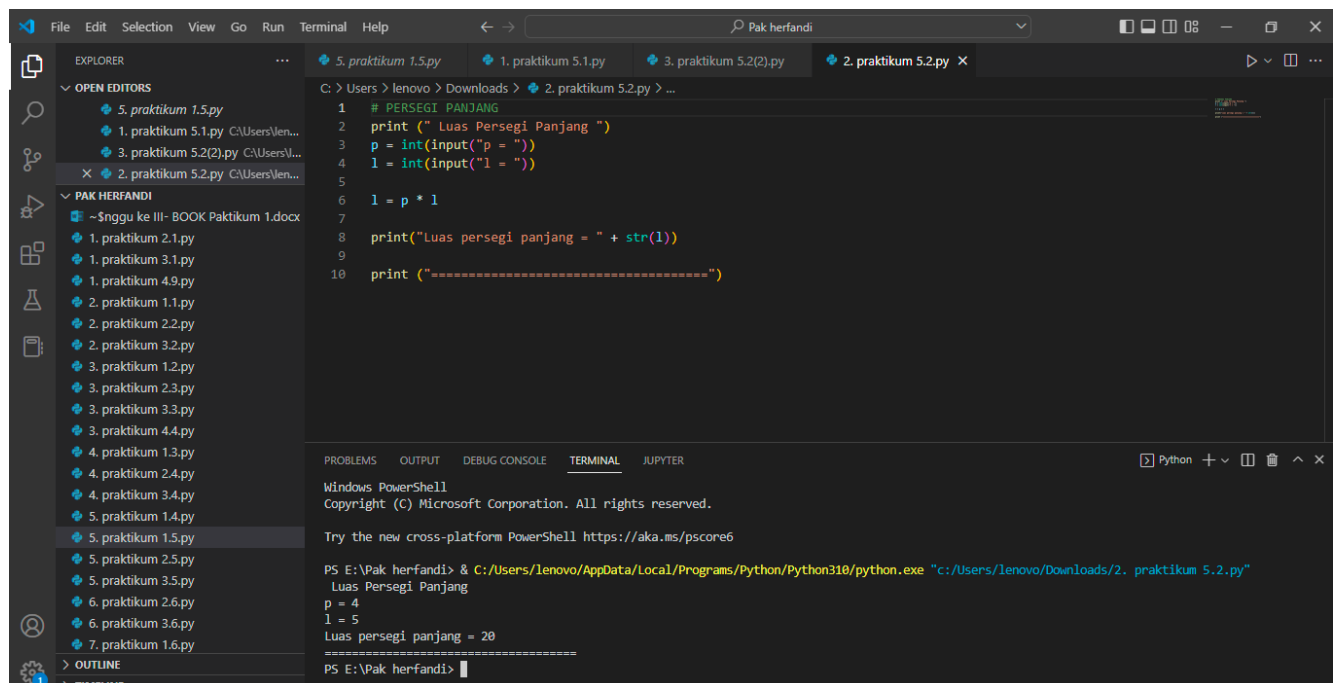


```
1 # PERSEGI PANJANG
2 print (" Luas Persegi Panjang ")
3 p = int(input("p = "))
4 l = int(input("l = "))
5
6 l = p * l
7
8 print("Luas persegi panjang = " + str(l))
9
10 print ("=====")
11
12 # SEGITIGA
13 print (" Luas Segitiga ")
14 a = int(input("a = "))
15 t = int(input("t = "))
16
17 L = a * t // 2
18
19 print ("Luas Segitiga = " + str(L))
```

Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS E:\Pak herFandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/1. praktikum 5.1.py"
Luas Persegi Panjang
p = 30
l = 90
Luas persegi panjang = 2700

2. Praktikum 5.2

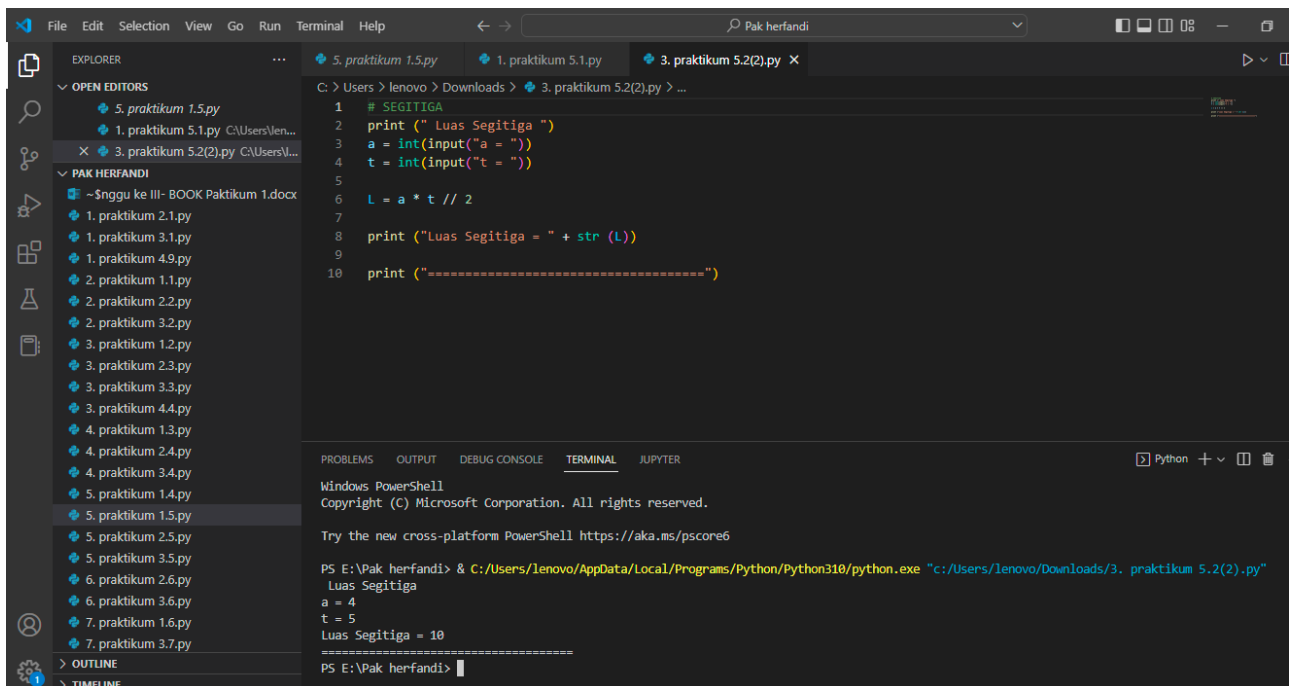


```
1 # PERSEGI PANJANG
2 print (" Luas Persegi Panjang ")
3 p = int(input("p = "))
4 l = int(input("l = "))
5
6 l = p * l
7
8 print("Luas persegi panjang = " + str(l))
9
10 print ("=====")
```

Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS E:\Pak herFandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/2. praktikum 5.2.py"
Luas Persegi Panjang
p = 4
l = 5
Luas persegi panjang = 20
=====

3. Praktikum 5.2(2)



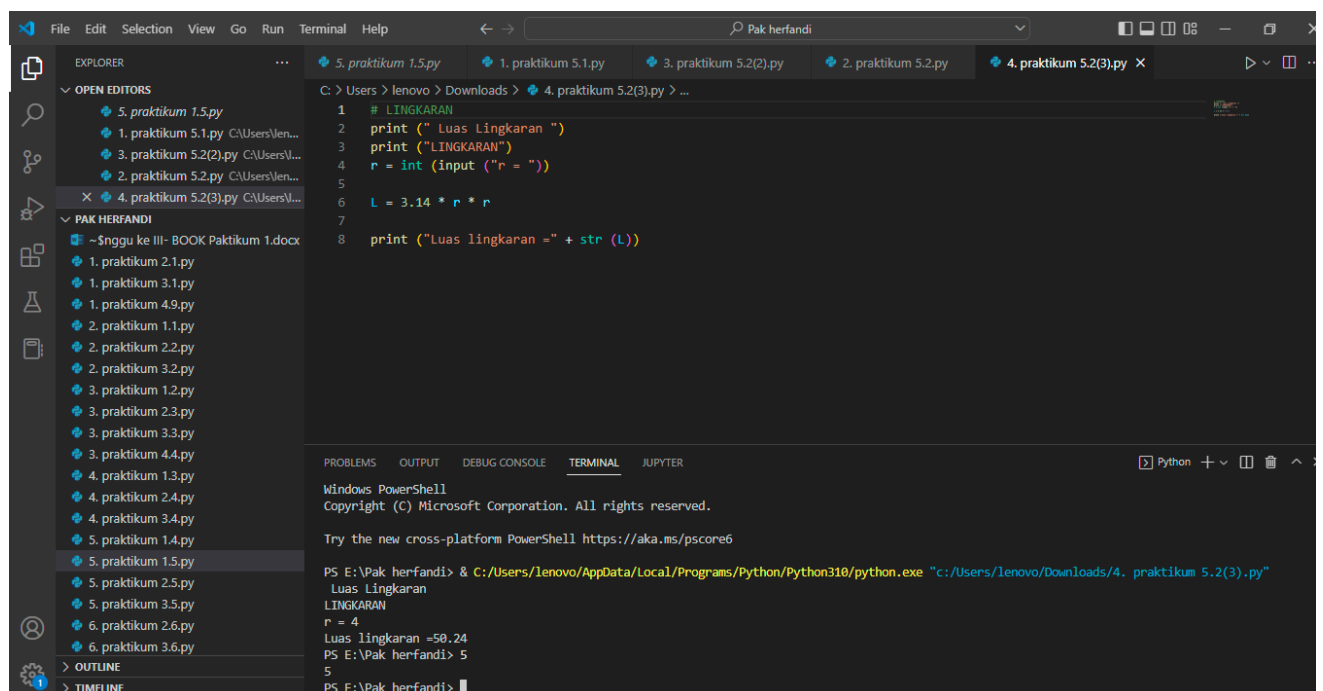
The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists files under 'PAK HERFANDI', including various 'praktikum' files. The main editor displays the file '3. praktikum 5.2(2).py' with the following Python code:

```
1 # SEGITIGA
2 print (" Luas Segitiga ")
3 a = int(input("a = "))
4 t = int(input("t = "))
5
6 L = a * t // 2
7
8 print ("Luas Segitiga = " + str (L))
9
10 print ("=====")
```

The TERMINAL pane at the bottom shows the command prompt output for running the script:

```
PS E:\Pak herfandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/3. praktikum 5.2(2).py"
Luas Segitiga
a = 4
t = 5
Luas Segitiga = 10
=====
PS E:\Pak herfandi>
```

4. Praktikum 5.2(3)



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists files under 'PAK HERFANDI', including various 'praktikum' files. The main editor displays the file '4. praktikum 5.2(3).py' with the following Python code:

```
1 # LINGKARAN
2 print (" Luas Lingkaran ")
3 print ("LINGKARAN")
4 r = int (input ("r = "))
5
6 L = 3.14 * r * r
7
8 print ("Luas lingkaran =" + str (L))
```

The TERMINAL pane at the bottom shows the command prompt output for running the script:

```
PS E:\Pak herfandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/4. praktikum 5.2(3).py"
Luas Lingkaran
LINGKARAN
r = 4
Luas lingkaran =50.24
PS E:\Pak herfandi> 5
PS E:\Pak herfandi>
```

5. Praktikum 5.3

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with a folder named 'PAK HERFANDI' containing various Python files. The file '5. praktikum 5.3.py' is selected. The Editor panel shows the code for the function `LuasSgt`, which calculates the area of a triangle given its base (`alas`) and height (`tinggi`). The function uses the formula $\text{luas} = \frac{1}{2} \times \text{alas} \times \text{tinggi}$. The terminal at the bottom shows the command `PS E:\Pak herfandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/5. praktikum 5.3.py"` and the output `Luas segitiga adalah : 10.0`.

```
def LuasSgt(alas, tinggi) :  
    segitiga = 1/2  
    luas = segitiga * (alas * tinggi)  
    print(" Luas segitiga adalah :", luas)  
  
LuasSgt(4, 5)
```

6. Praktikum 5.4

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with a folder named 'PAK HERFANDI' containing various Python files. The file '6. praktikum 5.4.py' is selected. The Editor panel shows the code for a program that collects numbers into a list and finds the maximum value. The program prompts the user to enter the number of data points (`n`), then loops to collect `n` numbers into a list (`listo`). Finally, it prints the list and the maximum value using `max(listo)`. The terminal at the bottom shows the command `PS E:\Pak herfandi>` and the output `Banyak Data : 4`, `masukkan bilangan ke-1 :5`, `masukkan bilangan ke-2 :6`, `masukkan bilangan ke-3 :6`, `masukkan bilangan ke-4 :6`, `List bilangan : [5, 6, 6, 6]`, and `Bilangan didalam list yang menggunakan angka terbesar adalah : 6`.

```
listo = []  
n = int(input("Banyak Data : "))  
  
print()  
for i in range(n):  
    bil = int(input("masukkan bilangan ke-{} :".format(i + 1)))  
    listo.append(bil)  
  
print()  
print("List bilangan :", listo)  
print("\nBilangan didalam list yang menggunakan angka terbesar adalah :")  
print(max(listo))
```

7. Praktikum 5.6

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists several Python files, with '8. praktikum 5.6.py' selected. The Editor panel displays the code for '8. praktikum 5.6.py', which is a Python program to calculate the factorial of a number using a function. The code is as follows:

```
1 import math
2 print("PROGRAM MENGHITUNG FAKTORIAL")
3 def faktorial (faktor):
4     rumus = math.factorial(faktor)
5     print (f"Faktor {faktor} : {rumus} ")
6
7 faktorial(10)
```

The Terminal panel at the bottom shows the command prompt output. The command executed is `PS E:\Pak herfandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/8. praktikum 5.6.py"`. The output is:

```
PROGRAM MENGHITUNG FAKTORIAL
Faktor 10 : 3628800
PS E:\Pak herfandi>
```

8. Praktikum 5.7

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists several Python files, with '9. praktikum 5.7.py' selected. The Editor panel displays the code for '9. praktikum 5.7.py', which is a Python program to perform operations on two lists. The code is as follows:

```
1 angka = [4,3,7,5]
2 angka_2 = [1,3,6,4]
3 jumlah_1 = sum(angka)
4 jumlah_2 = sum(angka_2)
5 total = sum(angka + angka_2)
6
7 print(f"List 1 : {angka}")
8 print(f"List 2 : {angka_2}")
9 print(f"Jumlah Nilai List 1 : {jumlah_1}")
10 print(f"Jumlah Nilai List 2 : {jumlah_2}")
11 print(f"Jumlah Nilai Kedua List : {total}")
```

The Terminal panel at the bottom shows the command prompt output. The command executed is `PS E:\Pak herfandi> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Downloads/9. praktikum 5.7.py"`. The output is:

```
List 1 : [4, 3, 7, 5]
List 2 : [1, 3, 6, 4]
Jumlah Nilai List 1 : 19
Jumlah Nilai List 2 : 14
Jumlah Nilai Kedua List : 33
PS E:\Pak herfandi>
```