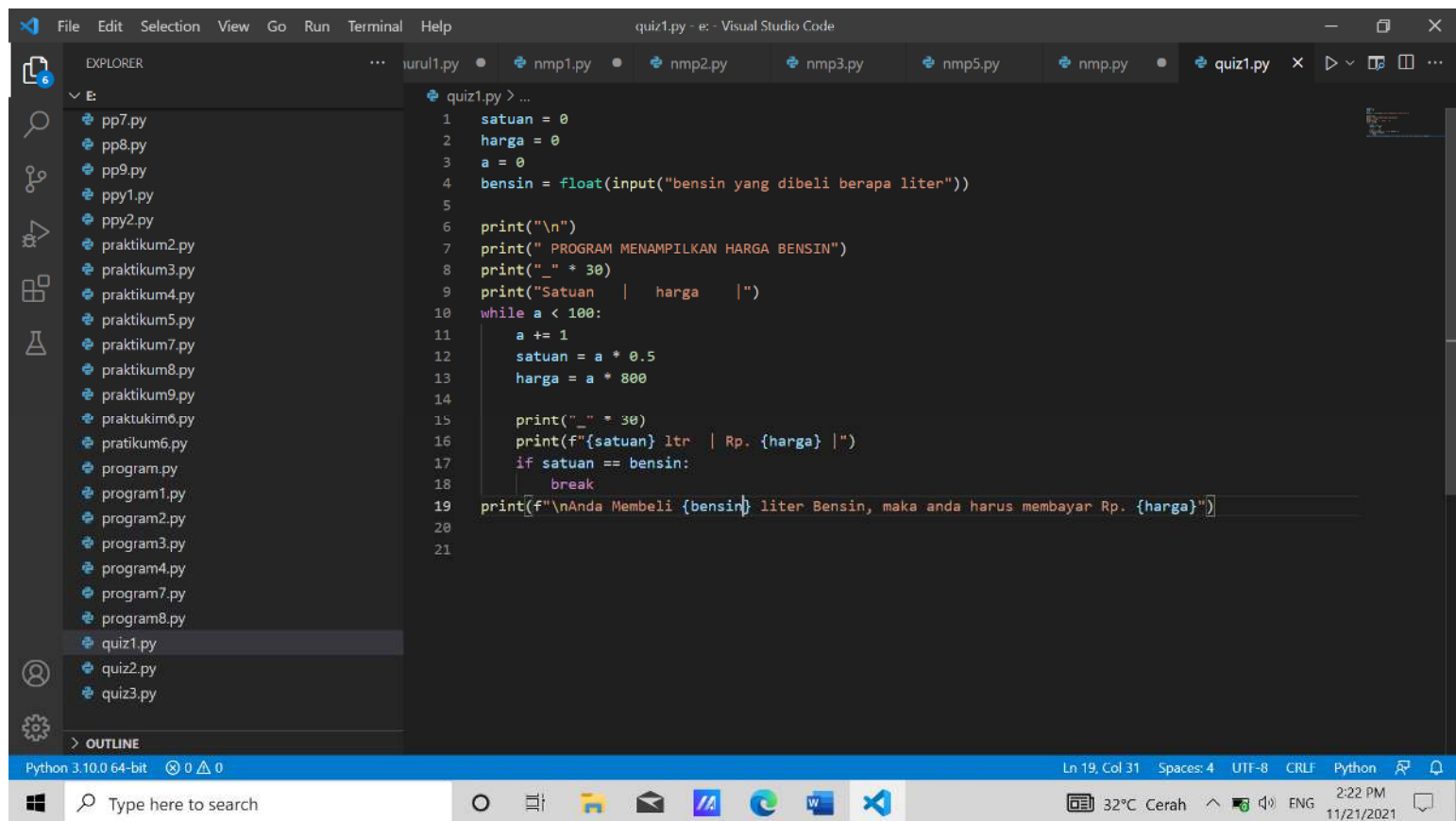


Nama : Nurmalia

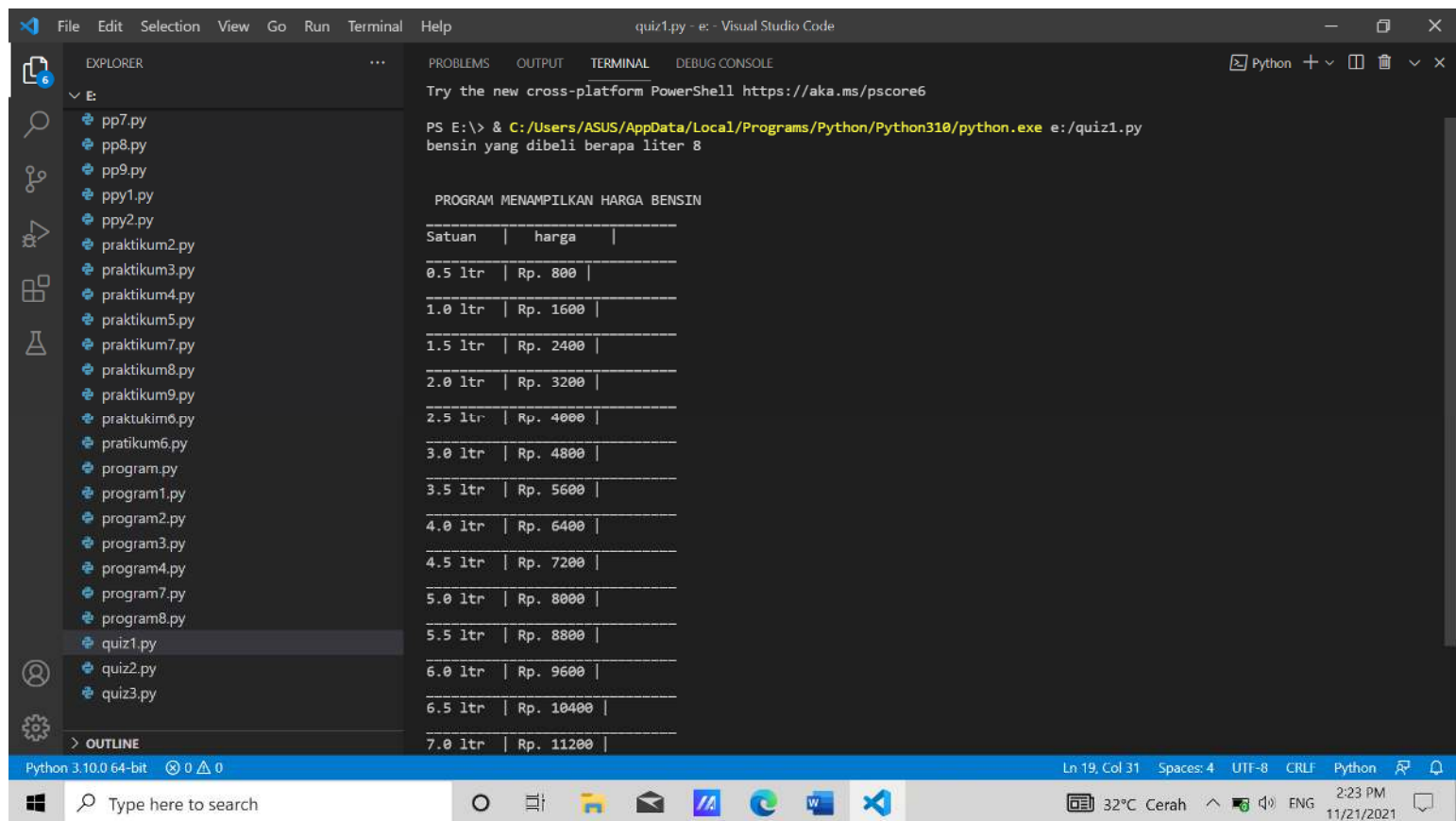
NIM : 20.01.013.069

Prodi : Teknik Informatika

1. Disini saya membuat program python tentang menampilkan tabel harga bensin



```
1 satuan = 0
2 harga = 0
3 a = 0
4 bensin = float(input("bensin yang dibeli berapa liter"))
5
6 print("\n")
7 print(" PROGRAM MENAMPILKAN HARGA BENSIN")
8 print("_" * 30)
9 print("Satuan | harga |")
10 while a < 100:
11     a += 1
12     satuan = a * 0.5
13     harga = a * 800
14
15     print("_" * 30)
16     print(f"{satuan} ltr | Rp. {harga} |")
17     if satuan == bensin:
18         break
19 print(f"\nAnda Membeli {bensin} liter Bensin, maka anda harus membayar Rp. {harga}")
20
21
```



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

PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/quiz1.py
bensin yang dibeli berapa liter 8

PROGRAM MENAMPILKAN HARGA BENSIN

Satuan | harga |
-----|-----|
0.5 ltr | Rp. 800 |
-----|-----|
1.0 ltr | Rp. 1600 |
-----|-----|
1.5 ltr | Rp. 2400 |
-----|-----|
2.0 ltr | Rp. 3200 |
-----|-----|
2.5 ltr | Rp. 4000 |
-----|-----|
3.0 ltr | Rp. 4800 |
-----|-----|
3.5 ltr | Rp. 5600 |
-----|-----|
4.0 ltr | Rp. 6400 |
-----|-----|
4.5 ltr | Rp. 7200 |
-----|-----|
5.0 ltr | Rp. 8000 |
-----|-----|
5.5 ltr | Rp. 8800 |
-----|-----|
6.0 ltr | Rp. 9600 |
-----|-----|
6.5 ltr | Rp. 10400 |
-----|-----|
7.0 ltr | Rp. 11200 |
-----|-----|
```

Satuan	harga
0.5 ltr	Rp. 800
1.0 ltr	Rp. 1600
1.5 ltr	Rp. 2400
2.0 ltr	Rp. 3200
2.5 ltr	Rp. 4000
3.0 ltr	Rp. 4800
3.5 ltr	Rp. 5600
4.0 ltr	Rp. 6400
4.5 ltr	Rp. 7200
5.0 ltr	Rp. 8000
5.5 ltr	Rp. 8800
6.0 ltr	Rp. 9600
6.5 ltr	Rp. 10400
7.0 ltr	Rp. 11200
7.5 ltr	Rp. 12000
8.0 ltr	Rp. 12800

Anda Membeli 8.0 liter Bensin, maka anda harus membayar Rp. 12800

PS E:\>

2. Disini saya akan membuat program python tentang menampilkan deret geometri

```
1 s = int(input("suku dari berapa : "))
2 am = int(input("suku akhir : "))
3 b = float(input("angka awal : "))
4 r = float(input("rasio : "))
5
6 for n in range(s , am+1):
7     suku = b * (r ** (n - 1))
8     print(suku)
```

suku dari berapa : 2
suku akhir : 20
angka awal : 5
rasio : 8
40.0
320.0
2560.0
20480.0
163840.0
1310720.0
10485760.0
83886080.0
671088640.0
5368709120.0
42949672960.0
343597383680.0
2748779069440.0
2199023255520.0
175921860444160.0
140737488353280.0
1.125899906842624e+16
9.007199254740992e+16
7.205759403792794e+17

PS C:\Users\USER\Desktop\python>

3. Disini saya akan membuat program python tentang menginput sejumlah bilangan dan keluarannya berupa nilai total dan rata-rata

The screenshot shows the Visual Studio Code interface with a Python file named `ap2.py` open. The code calculates the average of 6 numbers. The terminal shows the execution results.

```
1 print("PROGRAM PYTHON MENGHITUNG NILAI RATA-RATA")
2
3 n = int(input("\nBanyaknya Data : "))
4
5
6 print() #Membuat baris baru
7 data = []
8 jum = 0
9
10 for i in range(0, n):
11     temp = int(input("Masukkan data ke- %d : " % (i + 1)))
12     data.append(temp)
13     jum += data[i]
14     rata2 = jum / n
15
16
17 print("\nRata-rata = %.2f" % rata2)
18
```

Terminal Output:

```
Banyaknya Data : 6
Masukkan data ke- 1 : 2
Masukkan data ke- 2 : 4
Masukkan data ke- 3 : 1
Masukkan data ke- 4 : 5
Masukkan data ke- 5 : 7
Masukkan data ke- 6 : 9
Rata-rata = 4.67
PS C:\Users\USER\Desktop\python>
```

4. Disini saya akan membuat program python tentang menghitung x^y dengan x bilangan real dan y adalah bilangan bulat positif

The screenshot shows the Visual Studio Code interface with a Python file named `quiz2.py` open. The code calculates x^y where x is a real number and y is a positive integer. The terminal shows the execution results.

```
1 x = float(input("Masukan bilangan real (x):"))
2 y = int(input("Masukan bilangan bualt :"))
3
4 z = x**y
5 print(f"Maka jumlah perangkat(x perangkat y)={z} ")
```

Terminal Output:

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

PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/quiz2.py
Masukan bilangan real (x): 15
Masukan bilangan bualt : 4
Maka jumlah perangkat(x perangkat y)=50625.0
PS E:\>
```

5. Disini saya akan membuat program python tentang menghitung nilai N

The screenshot shows the Visual Studio Code interface with a Python file named `nmp3.py` open. The code calculates the factorial of a number `n` using a `for` loop. The terminal window shows the execution of the program, where the user enters `25` and the output is `25! = 15511210043330985984000000`.

```
nmp3.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}')
8
```

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

PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/nmp3.py
Masukkan nilai n: 25
25! = 15511210043330985984000000
PS E:\>
```

6. Disini saya akan membuat program python tentang tebak angka

The screenshot shows the Visual Studio Code interface with a Python file named `quiz3.py` open. The code implements a number guessing game where the user has 10 attempts to guess a random number between 1 and 10. The terminal window shows the execution of the program, where the user enters `6`, `2`, and `5`, all of which are incorrect, and finally enters `1`, which is correct, resulting in the message "selamat tebakan anda benar !".

```
quiz3.py > ...
1  import random
2
3  angka = random.randint(1, 10)
4
5  while True:
6      goal = int(input("masukkan angka (1 - 10) : "))
7      if goal == angka:
8          print("selamat tebakan anda benar !")
9          break
10     else:
11         print("tebakanmu terlalu", "kecil" if goal < angka else "besar")
12
```

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

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

PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/quiz3.py
masukkan angka (1 - 10) : 6
tebakanmu terlalu besar
masukkan angka (1 - 10) : 2
tebakanmu terlalu besar
masukkan angka (1 - 10) : 5
tebakanmu terlalu besar
masukkan angka (1 - 10) : 1
selamat tebakan anda benar !
PS E:\>
```


7. Disini saya akan membuat program python tentang menampilkan dan menjumlahkan semua bilangan yang ada di antara x dan y ($x < y$)

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing various Python files. The main editor displays a file named `quiz4.py` with the following Python code:

```
1 nilai_x = int(input("Masukan niali x = "))
2 nilai_y = int(input("Masukan niali y = "))
3
4 jumlah = []
5 for i in range(nilai_x, nilai_y):
6     jumlah.append(i)
7 jumlah.pop(0)
8 barisan = ' '.join(map(str, jumlah))
9 output = f""
10 Menjumlahkan semua bilangan yang terletak antara x dan y
11 -----
12 x      = {nilai_x}
13 y      = {nilai_y}
14 deret  = {barisan}
15 jumlah = {sum(jumlah)}
16 -----
17
18 """
19 print(output)
```

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

```
Masukan niali x = 6
Masukan niali y = 14

Menjumlahkan semua bilangan yang terletak antara x dan y
-----
x      = 6
y      = 14
deret  = 7 8 9 10 11 12 13
jumlah = 70
-----
```

8. Disini saya akan membuat program python tentang menampilkan bentuk segitiga dalam bentuk perulangan

The screenshot shows the Visual Studio Code interface with a file explorer on the left. The main editor displays a file named `quiz6.py` with the following Python code:

```
1 string = ""
2 bar = 1
3
4 x = int(input("Masukkan angka :"))
5 no = 1
6 # Looping Baris
7 while bar <= x:
8     kol = bar
9     # Looping Kolom
10    while kol > 0:
11        string = string + " " + str(no) + " "
12        kol = kol - 1
13
14    string = string + "\n"
15    bar = bar + 1
16    no = no+1
17 print (string)
```

The terminal at the bottom shows the execution of the program, displaying a pyramid of numbers for the input 8:

```
PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/quiz6.py
Masukkan angka : 8
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
6 6 6 6 6 6
7 7 7 7 7 7 7
8 8 8 8 8 8 8 8
PS E:\>
```

FileEditSelectionViewGoRunTerminalHelp

kiuz5.py - e: - Visual Studio Code

EXPLORER

E:

ppy1.py

ppy2.py

praktikum2.py

praktikum3.py

praktikum4.py

praktikum5.py

praktikum7.py

praktikum8.py

praktikum9.py

praktikum6.py

pratikum6.py

program.py

program1.py

program2.py

program3.py

program4.py

program7.py

program8.py

qiuz5.py

quiz1.py

quiz2.py

quiz3.py

quiz4.py

quiz6.py

OUTLINE

praktikum6.pypraktikum7.pypraktikum8.pypraktikum9.pyquiz6.pyqiuz5.py

qiuz5.py > ...

1 string = ""

2

3 bar = int(input("Masukkan angka :"))

4 no = bar

5 # Looping Baris

6 while bar >= 0:

7 # Looping Kolom

8 kol = bar

9 while kol > 0:

10 string = string + " " + str(no) + " "

11 kol = kol - 1

12

13 string = string + "\n"

14 bar = bar - 1

15 no = no - 1

16 print (string)

PROBLEMSOUTPUTTERMINALDEBUG CONSOLE

Python + - [] {} ^ x

PS E:\> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe e:/qiuz5.py

Masukkan angka : 8

8 8 8 8 8 8 8 8

7 7 7 7 7 7 7

6 6 6 6 6 6

5 5 5 5 5

4 4 4 4

3 3 3

2 2

1

Python 3.10.0 64-bit 0 0 0

Ln 16, Col 15 Spaces: 4 UTF-8 CRLF Python

Type here to search

32°C 3:11 PM 11/21/2021