

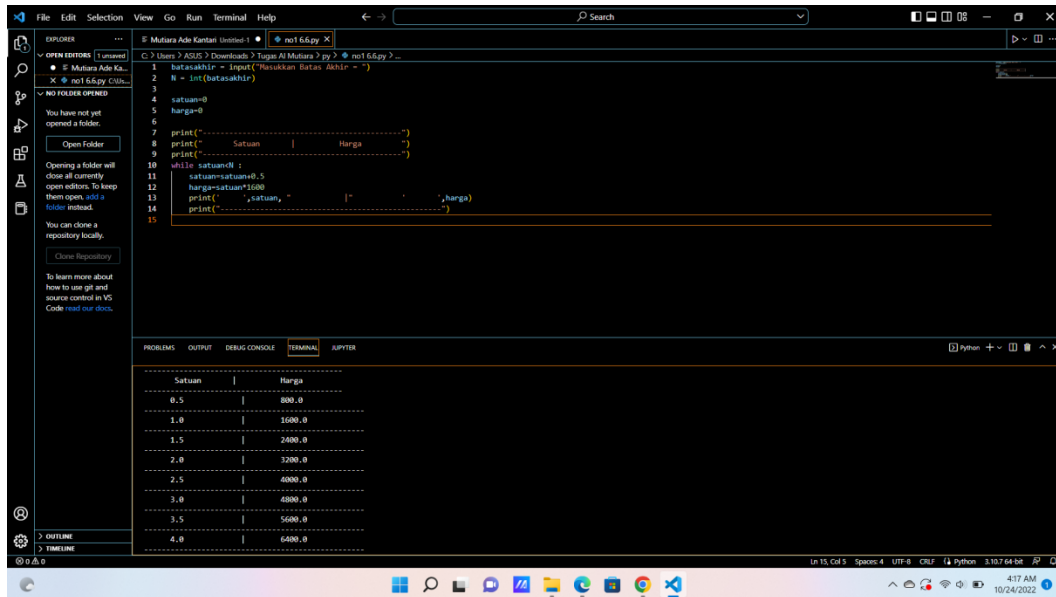
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KELAS : 3D INFORMATIKA

Tugas Book Praktikum 3 Minggu ke-3

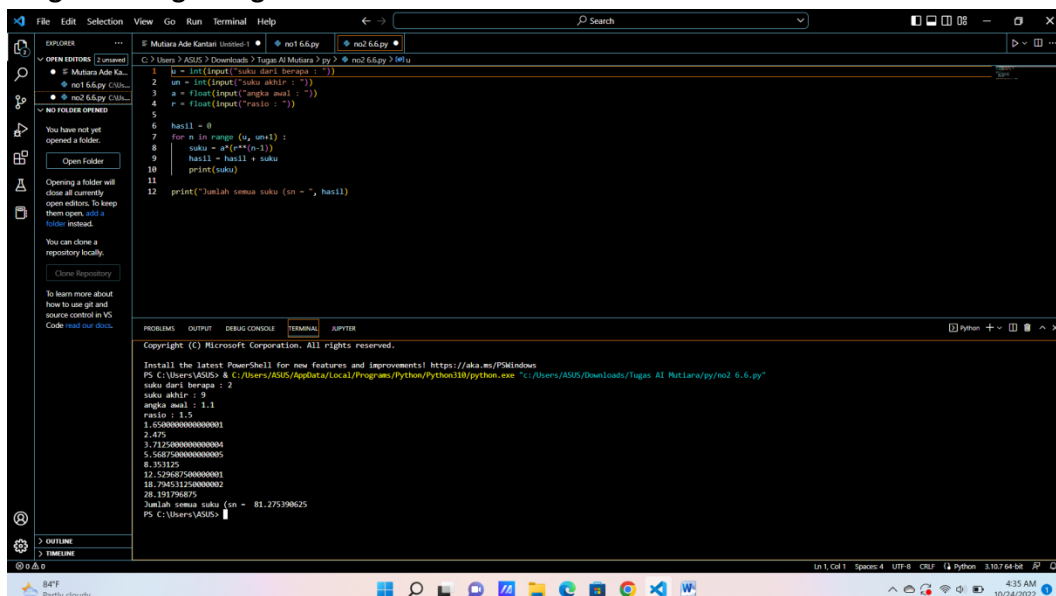
1. Program menampilkan tabel Bensin



```
1 batasakhir = input("Masukkan Batas Akhir : ")
2 n = int(batasakhir)
3
4 satuan=0
5 harga=0
6
7 print("-----")
8 print("    Satuan    |    Harga    ")
9 print("-----")
10 while satuan<= n :
11     satuan=satuan+0.5
12     harga=satuan*1600
13     print("    ",satuan, "    |    ",harga)
14     print("-----")
15
```

Satuan	Harga
0.5	800.0
1.0	1600.0
1.5	2400.0
2.0	3200.0
2.5	4000.0
3.0	4800.0
3.5	5600.0
4.0	6400.0

2. Program menghitung deret Geometri



```
1 n = int(input("suku dari berapa : "))
2 un = int(input("suku akhir : "))
3 a = float(input("angka awal : "))
4 r = float(input("rasio : "))
5
6 hasil = 0
7 for i in range(1, un+1) :
8     suku = a**(r**(n-1))
9     hasil = hasil + suku
10    print(suku)
11
12 print("Jumlah semua suku (sn = ", hasil)
```

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```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python38\python.exe -c "/Users/ASUS/Downloads/Tugas Al Mutiara/py/no2 6.6.py"
suku dari berapa : 2
suku akhir : 9
angka awal : 1.1
rasio : 1.5
1.6000000000000001
2.475
3.7125000000000004
5.5687500000000005
8.353125
12.526875000000001
18.794531250000002
28.191796875
Jumlah semua suku (sn = 81.275390625
PS C:\Users\ASUS>
```

3. Program menghitung nilai total dan rata-rata

The screenshot shows a Visual Studio Code editor with a Python file named `no3 6.6.py`. The code defines an array, takes user input for the number of elements and their values, calculates the sum, and then prints the total and average. The terminal window shows the execution of the program, where the user enters 4 for the number of elements and values 2, 4, 6, and 8, resulting in a total of 20.0 and an average of 5.0.

```
1 array = []
2 total = 0
3 n = int(input("Masukkan banyak elemen array : "))
4
5 for x in range(n):
6     nilai = float(input("Masukkan nilai ke-{} : ".format(x+1)))
7     array.append(nilai)
8 print("hasil nilai total adalah : {}".format(sum(array)))
9 print("hasil rata-rata adalah : {}".format(sum(array)/n))
```

```
PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Downloads\tugas AI Mutiara\py\no3 6.6.py"
Masukkan banyak elemen array : 4
Masukkan nilai ke-1 : 2
Masukkan nilai ke-2 : 4
Masukkan nilai ke-3 : 6
Masukkan nilai ke-4 : 8
/hasil nilai total adalah : 20.0
hasil rata-rata adalah : 5.0
PS C:\Users\ASUS>
```

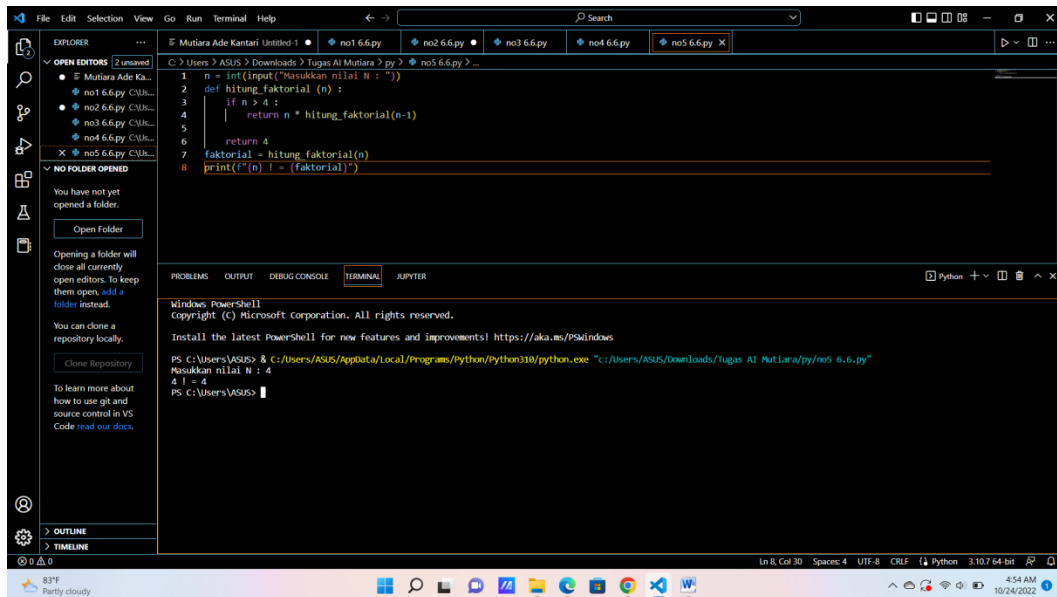
4. Program menghitung xy dengan x dan y bilangan bulat positif

The screenshot shows a Visual Studio Code editor with a Python file named `no4 6.6.py`. The code takes user input for two positive integers, x and y, and calculates x raised to the power of y using the `pow` function. The terminal window shows the execution of the program, where the user enters 4 for x and 6 for y, resulting in the output 4096.

```
1 x = int(input("Masukkan nilai bilangan bulat x : "))
2 y = int(input("Masukkan nilai bilangan bulat y : "))
3
4 nilai = pow(x,y)
5 print(f"x pangkat (y) adalah (nilai)")
```

```
PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Downloads\tugas AI Mutiara\py\no4 6.6.py"
Masukkan nilai bilangan bulat x : 4
Masukkan nilai bilangan bulat y : 6
4 pangkat 6 adalah 4096
PS C:\Users\ASUS>
```

5. Program menghitung nilai N dengan N sebagai masukan

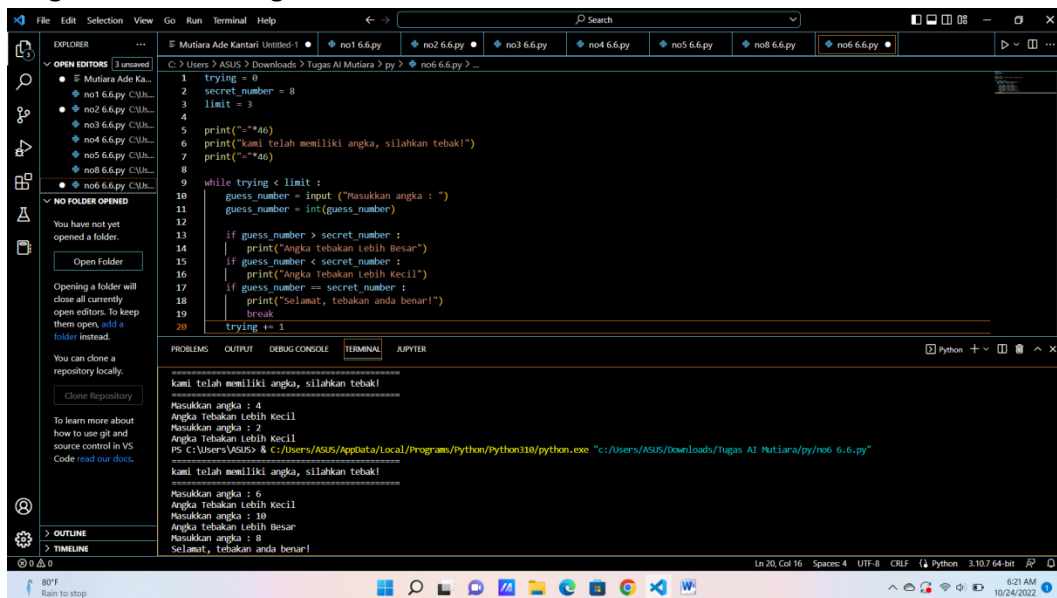


The screenshot shows the Visual Studio Code editor with a Python file named `no5 6.6.py` open. The code defines a recursive function `hitung_faktorial` to calculate the factorial of a number `n`. The terminal window shows the command to run the script, the input `4`, and the output `24`.

```
1 n = int(input("Masukkan nilai N : "))
2 def hitung_faktorial (n) :
3     if n > 4 :
4         return n * hitung_faktorial(n-1)
5     return 4
6 faktorial = hitung_faktorial(n)
7 print(f"n ! = {faktorial}")
```

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Downloads\tugas AI Mutiara\py\no5 6.6.py"
Masukkan nilai N : 4
4 ! = 24
PS C:\Users\ASUS>
```

6. Program menebak angka



The screenshot shows the Visual Studio Code editor with a Python file named `no6 6.6.py` open. The code implements a number guessing game where the user has 5 attempts to guess a secret number. The terminal window shows the execution of the program, including the secret number `8` and the user's guesses `4`, `2`, and `10`, eventually leading to the correct guess `8`.

```
1 trying = 0
2 secret_number = 8
3 limit = 5
4
5 print("---*46")
6 print("kami telah memiliki angka, silahkan tebak!")
7 print("---*46")
8
9 while trying < limit :
10     guess_number = input ("Masukkan angka : ")
11     guess_number = int(guess_number)
12
13     if guess_number > secret_number :
14         print("Angka tebakan Lebih Besar")
15     if guess_number < secret_number :
16         print("Angka tebakan Lebih Kecil")
17     if guess_number == secret_number :
18         print("Selamat, tebakan anda benar!")
19     break
20 trying += 1
```

```
kami telah memiliki angka, silahkan tebak!
=====
Masukkan angka : 4
Angka tebakan Lebih Kecil
Masukkan angka : 2
Angka tebakan Lebih Kecil
Masukkan angka : 10
Angka tebakan Lebih Besar
Masukkan angka : 8
Selamat, tebakan anda benar!
```

7. Program menampilkan dan menjumlahkan semua bilangan

8. Program menampilkan bentuk perulangan tersarang a. untuk N =5

```
1 n = int(input("Masukkan angka : "))
2
3 for i in range(1, n+1):
4     for j in range(1, n+1):
5         print(j, end = " ")
6
7     print()
8     n--1
```

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Downloads\tugas AI Mutiara\py\n08 6.6.py"
Masukkan angka : 5
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
PS C:\Users\ASUS>
```