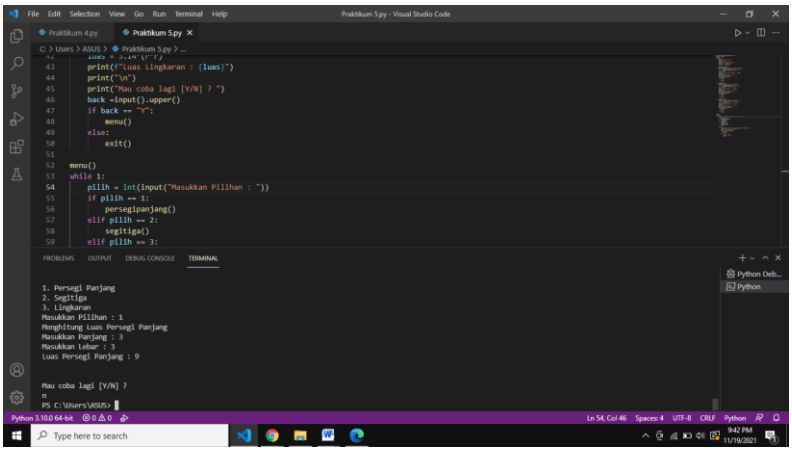
Nama : Aditya Fa’athir Barkhani

Nim : 20.01.013.035

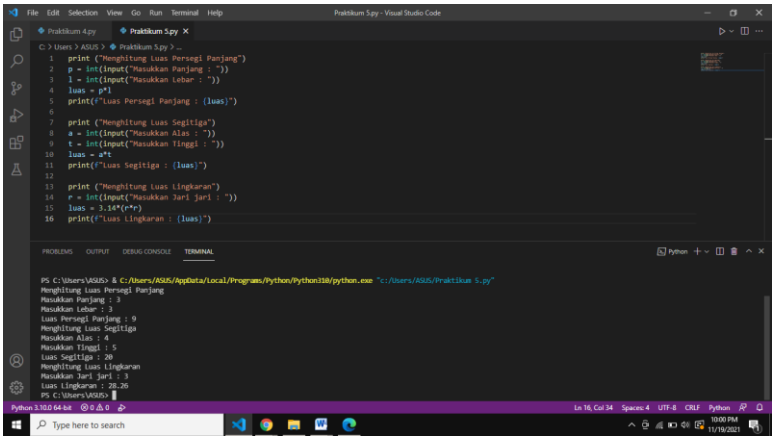
Kelas : Kecerdasan Buatan (AI-3B)

Tugas Praktikum V-UTS

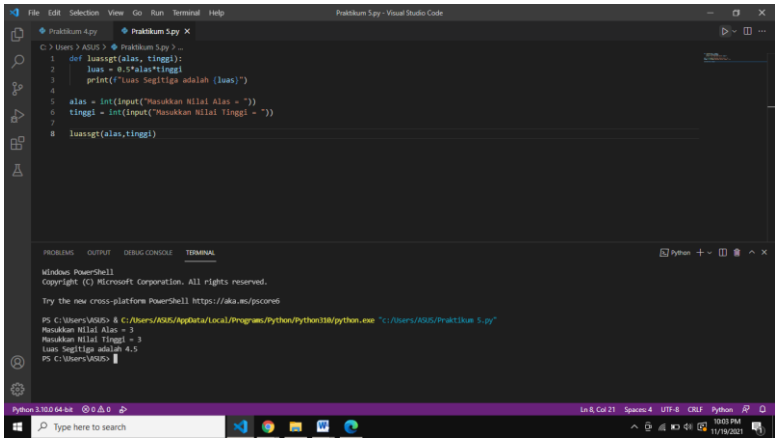
1.



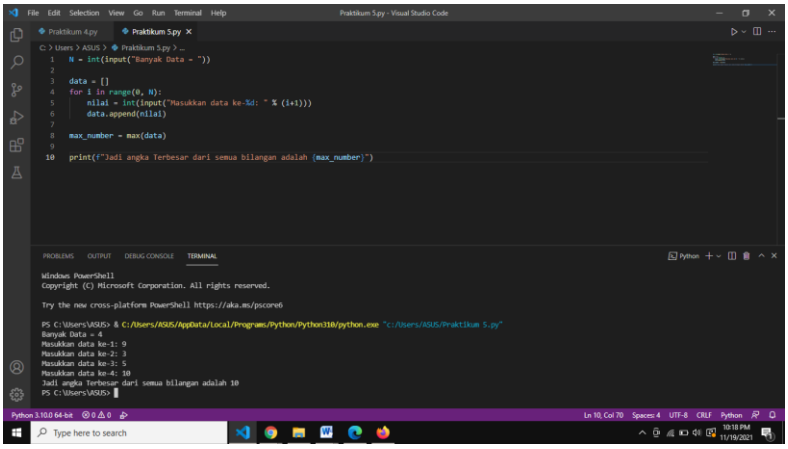
2.



3.



4.



```
N = int(input("Banyak Data = "))

data = []
for i in range(0, N):
    nilai = int(input("Masukkan data ke-%d: " % (i+1)))
    data.append(nilai)

max_number = max(data)

print(f"Jadi angka Terbesar dari semua bilangan adalah {max_number}")
```

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Praktikum 5.py"
Banyak Data = 4
Masukkan data ke-1: 9
Masukkan data ke-2: 3
Masukkan data ke-3: 5
Masukkan data ke-4: 10
Jadi angka Terbesar dari semua bilangan adalah 10
PS C:\Users\ASUS>
```
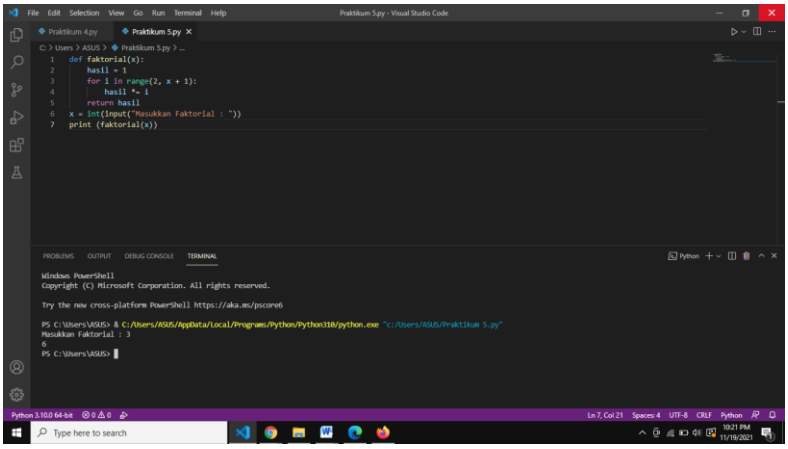

5.

6.



```
def faktorial(x):
    hasil = 1
    for i in range(2, x + 1):
        hasil *= i
    return hasil
x = int(input("Masukkan Faktorial : "))
print (faktorial(x))
```

```
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Praktikum 5.py"
Masukkan Faktorial : 3
6
PS C:\Users\ASUS>
```
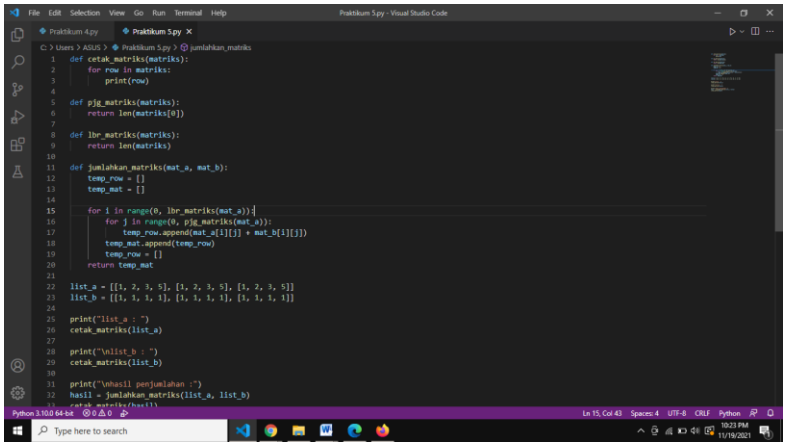
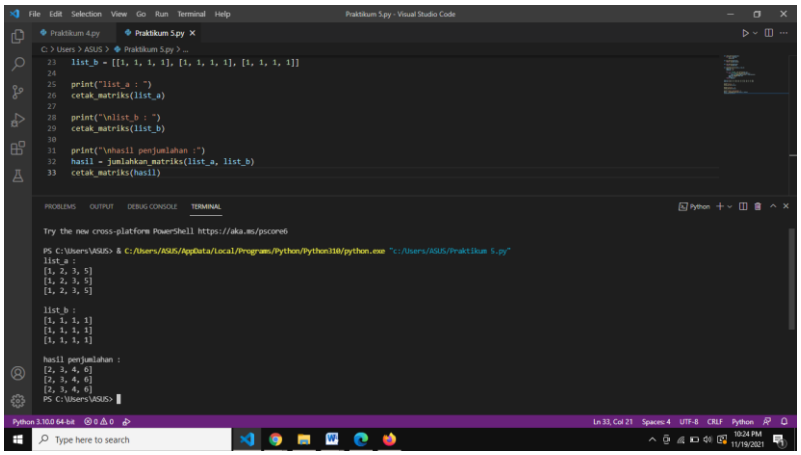

7.



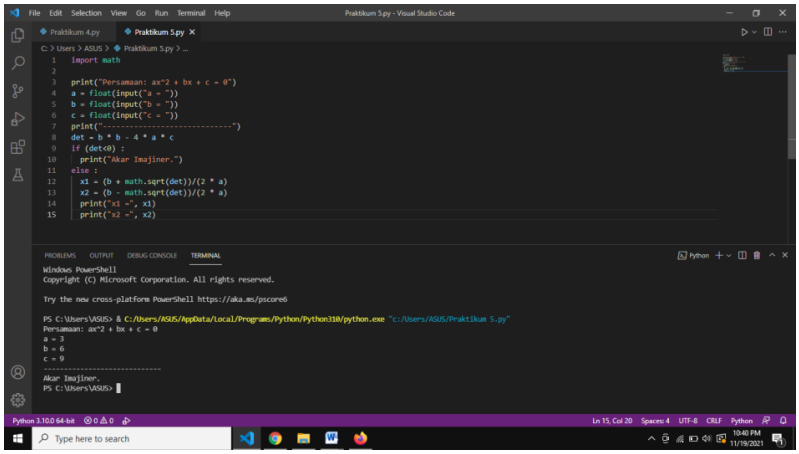
```
def cetak_matriks(matriks):
    for row in matriks:
        print(row)

def pjg_matriks(matriks):
    return len(matriks[0])

def lbr_matriks(matriks):
    return len(matriks)

def jumlahkan_matriks(mat_a, mat_b):
    temp_row = []
    temp_mat = []

    for i in range(0, lbr_matriks(mat_a)):
        for j in range(0, pjg_matriks(mat_a)):
            temp_row.append(mat_a[i][j] + mat_b[i][j])
        temp_mat.append(temp_row)
        temp_row = []
    return temp_mat

list_a = [[1, 2, 3, 5], [1, 2, 3, 5], [1, 2, 3, 5]]
list_b = [[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]

print("list_a : ")
cetak_matriks(list_a)

print("\nlist_b : ")
cetak_matriks(list_b)

print("\nhasil penjumlahan :")
hasil = jumlahkan_matriks(list_a, list_b)
```



```
list_b = [[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]

print("list_a : ")
cetak_matriks(list_a)

print("\nlist_b : ")
cetak_matriks(list_b)

print("\nhasil penjumlahan :")
hasil = jumlahkan_matriks(list_a, list_b)
cetak_matriks(hasil)
```

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

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Praktikum 5.py"
list_a :
[1, 2, 3, 5]
[1, 2, 3, 5]
[1, 2, 3, 5]

list_b :
[1, 1, 1, 1]
[1, 1, 1, 1]
[1, 1, 1, 1]

hasil penjumlahan :
[2, 3, 4, 6]
[2, 3, 4, 6]
[2, 3, 4, 6]
PS C:\Users\ASUS>
```

8.



```
import math

print("Persamaan: ax^2 + bx + c = 0")
a = float(input("a = "))
b = float(input("b = "))
c = float(input("c = "))
print("----------------------------")
det = b * b - 4 * a * c
if (det<0) :
  print("Akar Imajiner.")
else :
  x1 = (b + math.sqrt(det))/(2 * a)
  x2 = (b - math.sqrt(det))/(2 * a)
  print("x1 =", x1)
  print("x2 =", x2)
```

```
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Praktikum 5.py"
Persamaan: ax^2 + bx + c = 0
a = 3
b = 6
c = 9
----------------------------
Akar Imajiner.
PS C:\Users\ASUS>
```
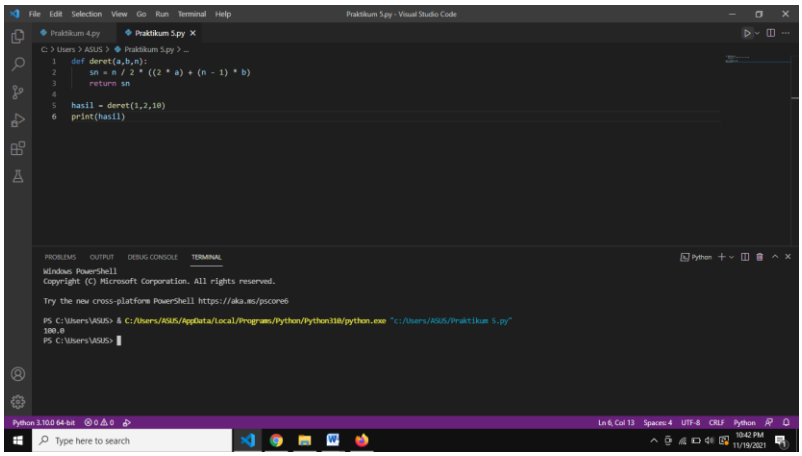

9.



```
def deret(a,b,n):
    sn = n / 2 * ((2 * a) + (n - 1) * b)
    return sn

hasil = deret(1,2,10)
print(hasil)
```

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Praktikum 5.py"
100.0
PS C:\Users\ASUS>
```