

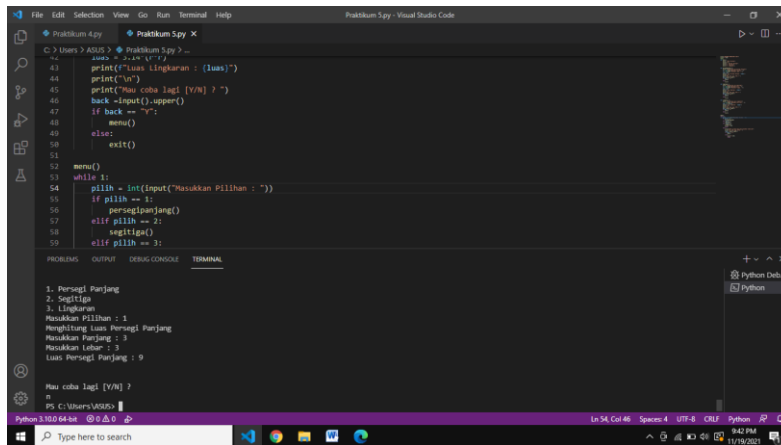
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Kelas : Kecerdasan Buatan (AI-3B)

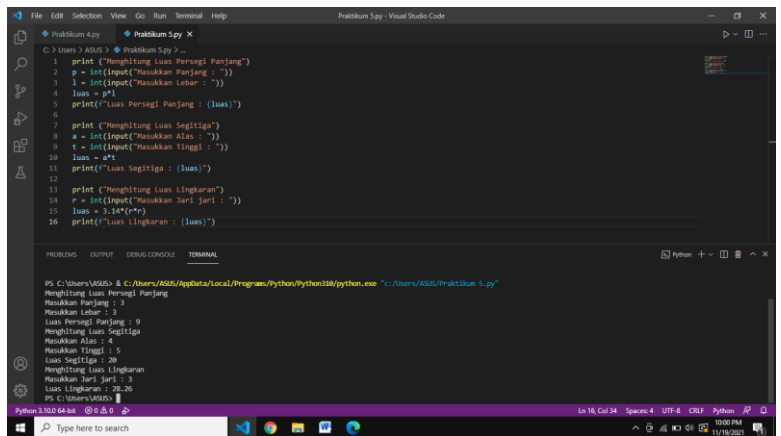
Tugas Praktikum V-UTS

1.



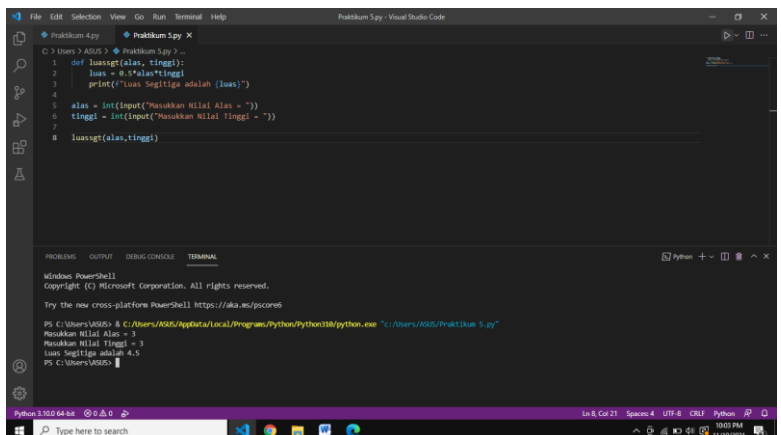
```
Praktikum 5.py
C:\Users> python Praktikum 5.py
43 print("Luas Lingkaran : (luas)")
44 print("\n")
45 print("Mau coba lagi [Y/N] ? ")
46 back = input().upper()
47 if back == "y":
48     menu()
49 else:
50     exit()
51
52 menu()
53 while 1:
54     pilih = int(input("Masukkan Pilihan : "))
55     if pilih == 1:
56         persegi panjang()
57     elif pilih == 2:
58         segitiga()
59     elif pilih == 3:
60         lingkaran()
61
62 1. Persegi Panjang
63 2. Segitiga
64 3. Lingkaran
65 Masukkan Pilihan : 1
66 Menghitung Luas Persegi Panjang
67 Masukkan Panjang : 1
68 Masukkan Lebar : 3
69 Luas Persegi Panjang : 9
70
71 Mau coba lagi [Y/N] ?
72 n
73 PS C:\Users>
```

2.



```
Praktikum 5.py
C:\Users> python Praktikum 5.py
1 print("Menghitung Luas Persegi Panjang")
2 p = int(input("Masukkan Panjang : "))
3 l = int(input("Masukkan Lebar : "))
4 luas = p*l
5 print("Luas Persegi Panjang : (luas)")
6
7 print("Menghitung Luas Segitiga")
8 a = int(input("Masukkan Alas : "))
9 t = int(input("Masukkan Tinggi : "))
10 luas = 0.5*a*t
11 print("Luas Segitiga : (luas)")
12
13 print("Menghitung Luas Lingkaran")
14 r = int(input("Masukkan Jari Jari : "))
15 luas = 3.14*(r**2)
16 print("Luas Lingkaran : (luas)")
17
18 PS C:\Users> python Praktikum 5.py
19 Menghitung Luas Persegi Panjang
20 Masukkan Panjang : 1
21 Masukkan Lebar : 3
22 Luas Persegi Panjang : 9
23 Menghitung Luas Segitiga
24 Masukkan Alas : 4
25 Masukkan Tinggi : 5
26 Luas Segitiga : 20
27 Menghitung Luas Lingkaran
28 Masukkan Jari Jari : 3
29 Luas Lingkaran : 28.26
30 PS C:\Users>
```

3.



```
Praktikum 5.py
C:\Users> python Praktikum 5.py
1 def luaspt(alas, tinggi):
2     luas = 0.5*alas*tinggi
3     print("Luas segitiga adalah (luas)")
4
5 alas = int(input("Masukkan Nilai alas = "))
6 tinggi = int(input("Masukkan Nilai Tinggi = "))
7
8 luaspt(alas,tinggi)
9
10 PS C:\Users> python Praktikum 5.py
11 Masukkan Nilai Alas = 3
12 Masukkan Nilai Tinggi = 4
13 Luas Segitiga adalah 6
14 PS C:\Users>
```

4.

```

1  N = int(input("Banyak Data : "))
2
3  data = []
4  for i in range(0, N):
5      nilai = int(input("Masukkan data ke-{}: ".format(i+1)))
6      data.append(nilai)
7
8  max_number = max(data)
9
10 print("Jadi angka Terbesar dari semua bilangan adalah {}".format(max_number))

```

Terminal output:

```

PS C:\Users\AGUS> & C:\Users\AGUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\AGUS\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\AGUS>

```

5.

6.

```

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

```

Terminal output:

```

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

```

7.

```

1  def cetak_matriks(matriks):
2      for row in matriks:
3          print(row)
4
5  def p_jg_matriks(matriks):
6      return len(matriks[0])
7
8  def lbr_matriks(matriks):
9      return len(matriks)
10
11 def jumlahkan_matriks(mat_a, mat_b):
12     temp_row = []
13     temp_mat = []
14
15     for i in range(0, lbr_matriks(mat_a)):
16         for j in range(0, p_jg_matriks(mat_a)):
17             temp_row.append(mat_a[i][j] + mat_b[i][j])
18         temp_mat.append(temp_row)
19         temp_row = []
20     return temp_mat
21
22 list_a = [[1, 2, 3, 5], [1, 2, 3, 5], [1, 2, 3, 5]]
23 list_b = [[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]
24
25 print("list a : ")
26 cetak_matriks(list_a)
27
28 print("list b : ")
29 cetak_matriks(list_b)
30
31 print("hasil penjumlahan :")
32 hasil = jumlahkan_matriks(list_a, list_b)
33 print(hasil)

```

Terminal output:

```

PS C:\Users\AGUS> & C:\Users\AGUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\AGUS\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]]
[[2, 3, 4, 6], [2, 3, 4, 6], [2, 3, 4, 6]]
PS C:\Users\AGUS>

```

```

Praktikum 4.py  Praktikum Spy X
C:\Users> ASUS > Praktikum Spy > ...
23 list_b = [[1, 1, 1, 1], [1, 1, 1, 1], [1, 1, 1, 1]]
24
25 print("list a : ")
26 cetak_matriks(list_a)
27
28 print("\nlist b : ")
29 cetak_matriks(list_b)
30
31 print("\nhasil penjumlahan :")
32 hasil = jumlahkan_matriks(list_a, list_b)
33 cetak_matriks(hasil)

PROBLEMS OUTPUT DEBUG-CONSOLE TERMINAL
Try the new cross-platform PowerShell https://aka.ms/powershell
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Program\Python\Python118\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.

```

Praktikum 4.py  Praktikum Spy X
C:\Users> ASUS > Praktikum Spy > ...
1 import math
2
3 print("Persamaan: ax^2 + bx + c = 0")
4 a = float(input("a = "))
5 b = float(input("b = "))
6 c = float(input("c = "))
7 print("-----")
8 det = b * b - 4 * a * c
9 if (det < 0) :
10     print("Akar Imajiner.")
11 else :
12     x1 = (b + math.sqrt(det))/(2 * a)
13     x2 = (b - math.sqrt(det))/(2 * a)
14     print("x1 -> ", x1)
15     print("x2 -> ", x2)

PROBLEMS OUTPUT DEBUG-CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Program\Python\Python118\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.

```

Praktikum 4.py  Praktikum Spy X
C:\Users> ASUS > Praktikum Spy > ...
1 def deret(a,b,n):
2     sn = a / 2 * ((2 * a) + (n - 1) * b)
3     return sn
4
5 hasil = deret(1,2,10)
6 print(hasil)

PROBLEMS OUTPUT DEBUG-CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Program\Python\Python118\python.exe "C:\Users\ASUS\Praktikum 5.py"
100.0
PS C:\Users\ASUS>

```