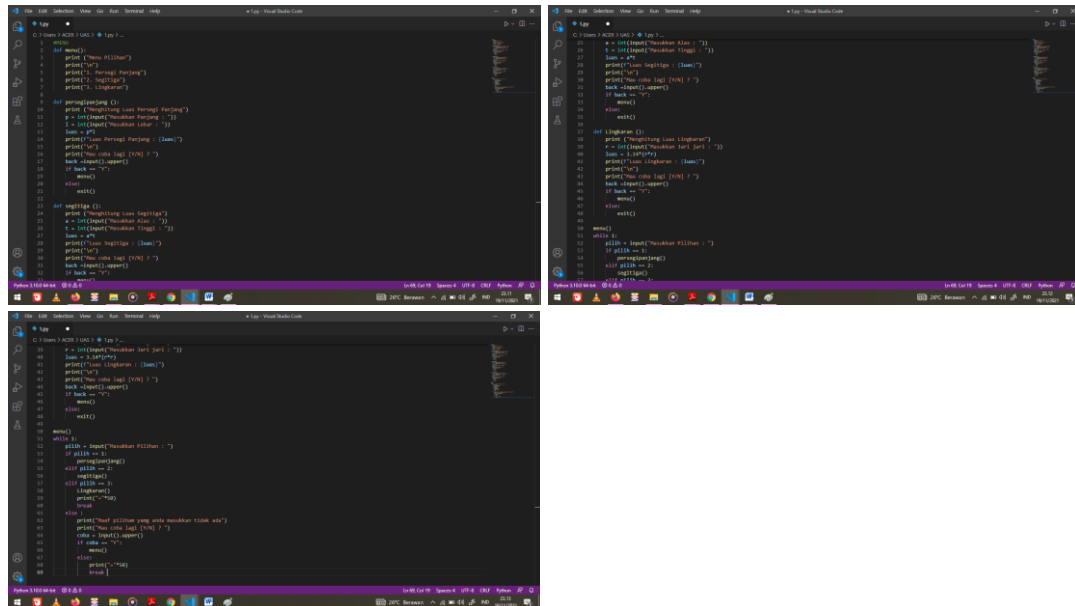
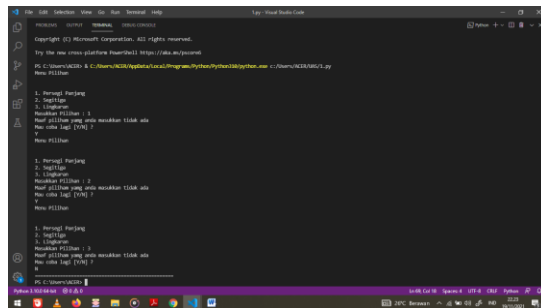


Kelas : Artificial Intelligence – 3B

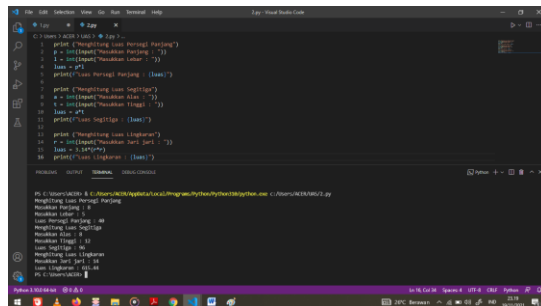
**1.**



**OUTPUTNYA :**



**2.**



3.

```

1 # Program 3: Luas Segitiga
2 def main():
3     Alas = float(input("Masukkan Alas: "))
4     Tinggi = float(input("Masukkan Tinggi: "))
5     luas = 0.5 * Alas * Tinggi
6     print("Luas segitiga adalah: ", luas)
7
8 if __name__ == "__main__":
9     main()

```

4.

```

1 # Program 4: Tebak Angka
2 import random
3
4 def main():
5     angka = random.randint(1, 100)
6     print("Angka yang akan ditebak adalah: ", angka)
7
8     while True:
9         tebak = int(input("Masukkan tebakanmu: "))
10        if tebak > angka:
11            print("Terlalu besar!")
12        elif tebak < angka:
13            print("Terlalu kecil!")
14        else:
15            print("Benar!")
16            break
17
18 if __name__ == "__main__":
19     main()

```

5.

6.

```

1 # Program 6: Faktorial
2 def faktorial(n):
3     hasil = 1
4     for i in range(1, n + 1):
5         hasil *= i
6     return hasil
7
8 def main():
9     n = int(input("Masukkan bilangan: "))
10    print(faktorial(n))

```

7.

```

1 # Program 7: Operasi Matriks
2 def tambah_matriks(m1, m2):
3     result = []
4     for i in range(len(m1)):
5         row = []
6         for j in range(len(m1[0])):
7             row.append(m1[i][j] + m2[i][j])
8         result.append(row)
9     return result
10
11 def kurangi_matriks(m1, m2):
12     result = []
13     for i in range(len(m1)):
14         row = []
15         for j in range(len(m1[0])):
16             row.append(m1[i][j] - m2[i][j])
17         result.append(row)
18     return result
19
20 def kali_matriks(m1, m2):
21     result = []
22     for i in range(len(m1)):
23         row = []
24         for j in range(len(m2[0])):
25             total = 0
26             for k in range(len(m2)):
27                 total += m1[i][k] * m2[k][j]
28             row.append(total)
29         result.append(row)
30     return result
31
32 def transpose_matriks(m):
33     result = []
34     for i in range(len(m)):
35         row = []
36         for j in range(len(m[0])):
37             row.append(m[j][i])
38         result.append(row)
39     return result
40
41 def main():
42     m1 = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
43     m2 = [[9, 8, 7], [6, 5, 4], [3, 2, 1]]
44     print("Matriks 1:")
45     print_matriks(m1)
46     print("Matriks 2:")
47     print_matriks(m2)
48     print("Hasil Penjumlahan:")
49     print_matriks(tambah_matriks(m1, m2))
50     print("Hasil Pengurangan:")
51     print_matriks(kurangi_matriks(m1, m2))
52     print("Hasil Perkalian:")
53     print_matriks(kali_matriks(m1, m2))
54     print("Hasil Transpose Matriks 1:")
55     print_matriks(transpose_matriks(m1))

```

The screenshot shows a Jupyter Notebook interface in a web browser. The notebook is titled "Exp. Your Node Code". The code in the notebook is as follows:

```

1 # Import the sys module
2 import sys
3
4 # Get the arguments from the command line
5 args = sys.argv
6
7 # Check if there are enough arguments
8 if len(args) != 3:
9     print("Usage: python calculator.py <num1> <operator> <num2>")
10     sys.exit(1)
11
12 # Parse the arguments
13 num1 = float(args[1])
14 operator = args[2]
15 num2 = float(args[3])
16
17 # Perform the operation
18 if operator == "+":
19     result = num1 + num2
20 elif operator == "-":
21     result = num1 - num2
22 elif operator == "*":
23     result = num1 * num2
24 elif operator == "/":
25     result = num1 / num2
26 else:
27     print("Invalid operator")
28     sys.exit(1)
29
30 # Print the result
31 print("Result: " + str(result))

```

The output of the notebook shows the following:

```

1 # Import the sys module
2 import sys
3
4 # Get the arguments from the command line
5 args = sys.argv
6
7 # Check if there are enough arguments
8 if len(args) != 3:
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24 elif operator == "/":
25     result = num1 / num2
26 else:
27     print("Invalid operator")
28     sys.exit(1)
29
30 # Print the result
31 print("Result: " + str(result))

```

The output shows the calculation of 2 + 3 = 5. The interface includes a top toolbar with icons for file operations, a left sidebar with a file explorer, and a bottom status bar showing system information.

[illegible]