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Program Studi : Teknik Elektro

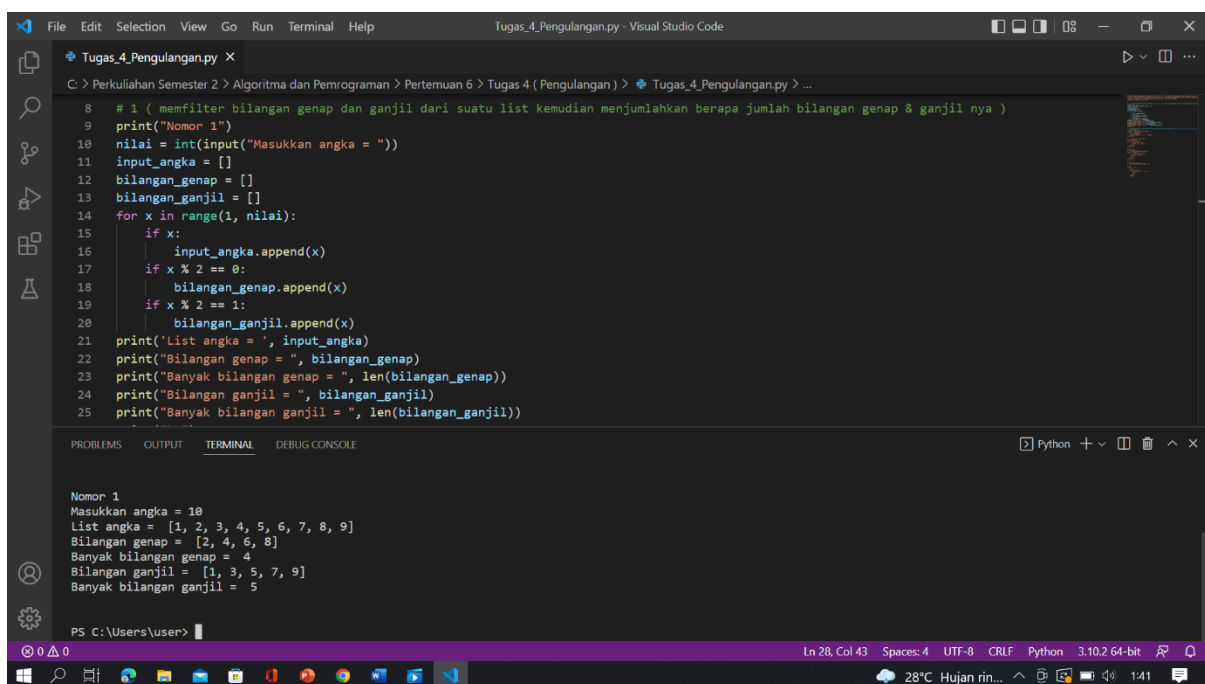
Kelas : EE-04-01

Mata Kuliah : Algoritma dan Pemrograman

Dosen Pengampu : Moch. Iskandar Riansyah

## Tugas 4 ( Pengulangan )

1. Program 1, memfilter bilangan genap dan ganjil dari suatu list kemudian menjumlahkan berapa jumlah bilangan genap & ganjil nya

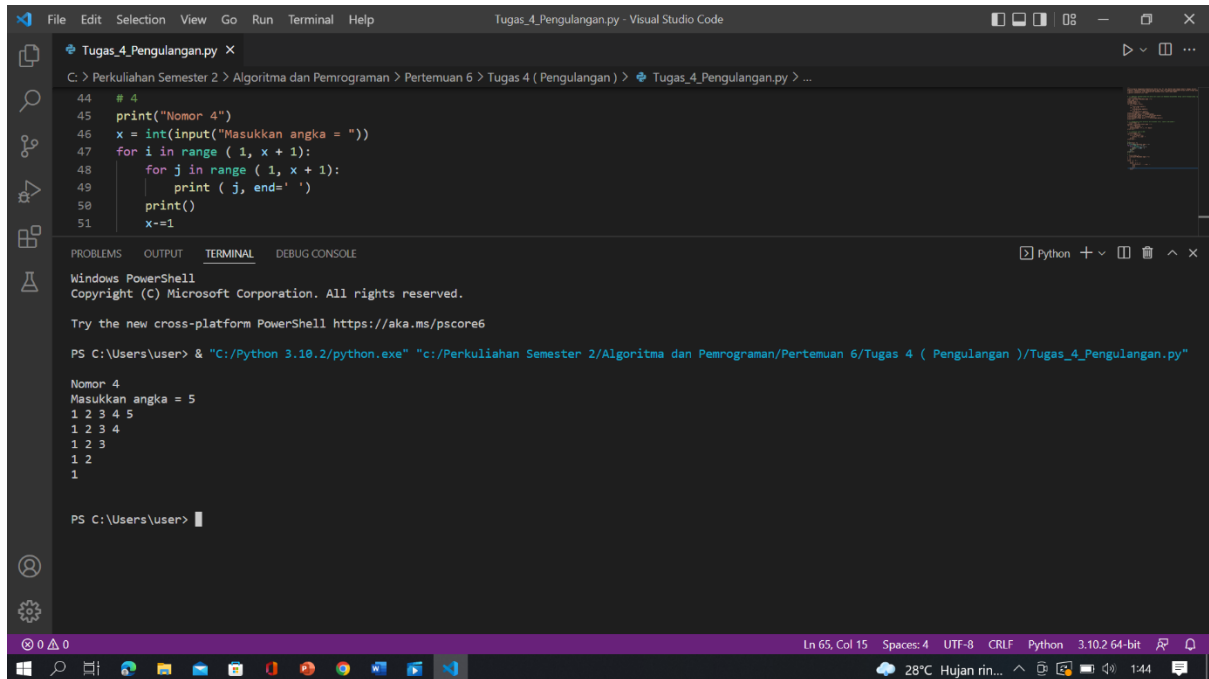


```
8 # 1 ( memfilter bilangan genap dan ganjil dari suatu list kemudian menjumlahkan berapa jumlah bilangan genap & ganjil nya )
9 print("Nomor 1")
10 nilai = int(input("Masukkan angka = "))
11 input_angka = []
12 bilangan_genap = []
13 bilangan_ganjil = []
14 for x in range(1, nilai):
15     if x:
16         input_angka.append(x)
17         if x % 2 == 0:
18             bilangan_genap.append(x)
19         if x % 2 == 1:
20             bilangan_ganjil.append(x)
21 print('List angka = ', input_angka)
22 print("Bilangan genap = ", bilangan_genap)
23 print("Banyak bilangan genap = ", len(bilangan_genap))
24 print("Bilangan ganjil = ", bilangan_ganjil)
25 print("Banyak bilangan ganjil = ", len(bilangan_ganjil))
```

Nomor 1  
Masukkan angka = 10  
List angka = [1, 2, 3, 4, 5, 6, 7, 8, 9]  
Bilangan genap = [2, 4, 6, 8]  
Banyak bilangan genap = 4  
Bilangan ganjil = [1, 3, 5, 7, 9]  
Banyak bilangan ganjil = 5



#### 4. Program 4, membuat segitiga



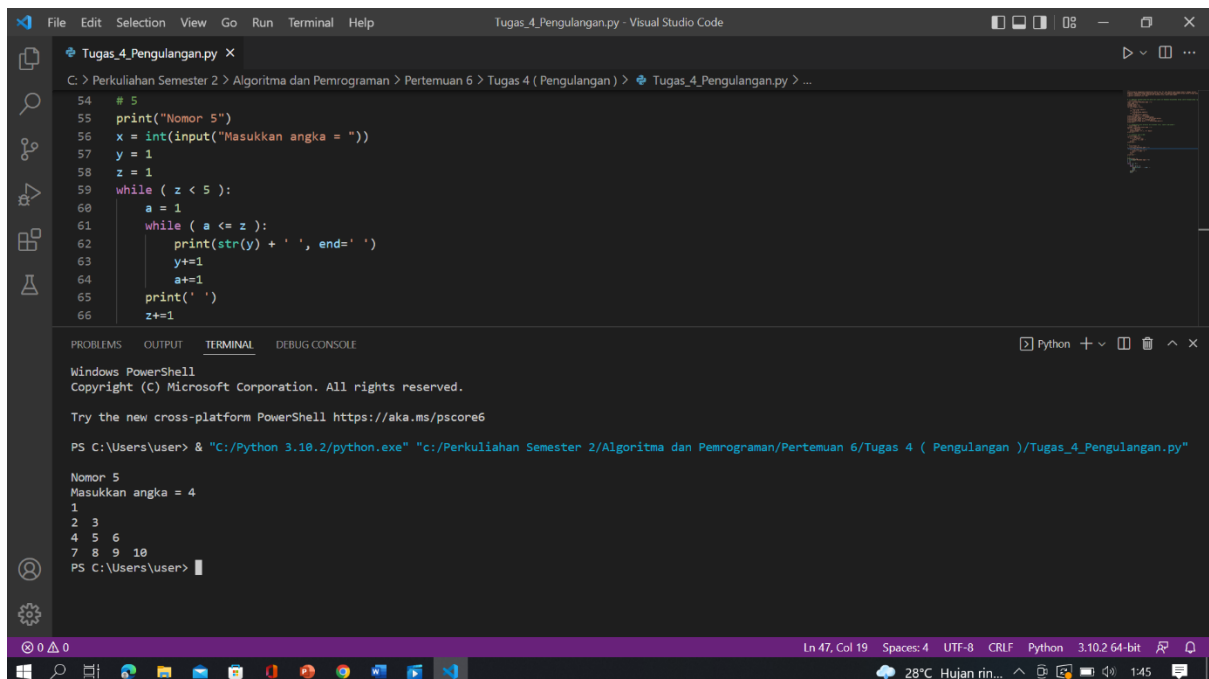
The screenshot shows the Visual Studio Code editor with a file named `Tugas_4_Pengulangan.py`. The code in the editor is as follows:

```
44 # 4
45 print("Nomor 4")
46 x = int(input("Masukkan angka = "))
47 for i in range ( 1, x + 1):
48     for j in range ( 1, x + 1):
49         print ( j, end=' ')
50     print()
51     x-=1
```

The terminal window shows the execution of the program. It prompts for an input number, which is 5. The output is a right-angled triangle of numbers:

```
Nomor 4
Masukkan angka = 5
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

#### 5. Program 5, membuat segitiga



The screenshot shows the Visual Studio Code editor with a file named `Tugas_4_Pengulangan.py`. The code in the editor is as follows:

```
54 # 5
55 print("Nomor 5")
56 x = int(input("Masukkan angka = "))
57 y = 1
58 z = 1
59 while ( z < 5 ):
60     a = 1
61     while ( a <= z ):
62         print(str(y) + ' ', end=' ')
63         y+=1
64         a+=1
65     print(' ')
66     z+=1
```

The terminal window shows the execution of the program. It prompts for an input number, which is 4. The output is a diamond-shaped triangle of numbers:

```
Nomor 5
Masukkan angka = 4
1
2 3
4 5 6
7 8 9 10
```

