

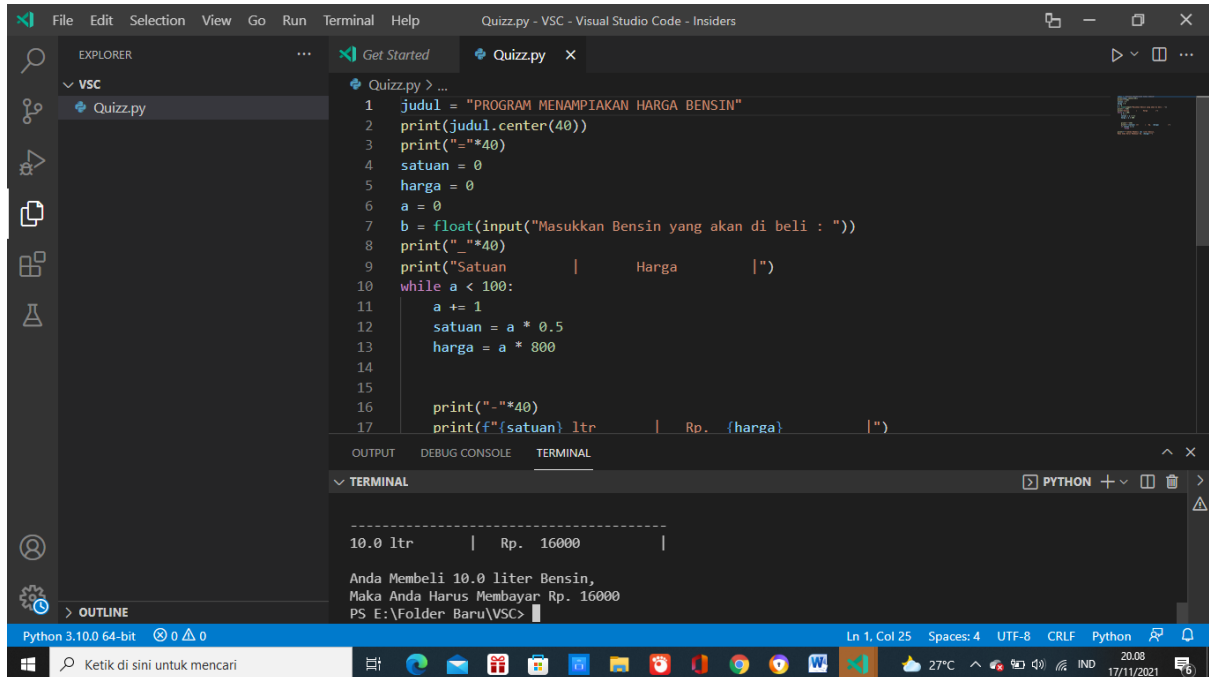
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NIM : 20.01.013.037

Matkul : Artificial Intelligence

Quis Python

1. Program Menampilkan Harga Bensin



The screenshot shows a Python script in Visual Studio Code. The script calculates the price of fuel based on the volume purchased. It uses a while loop to increment the volume until it reaches 10.0 liters. The price is calculated as 800 per liter, and the total price is 16000. The output is displayed in the terminal.

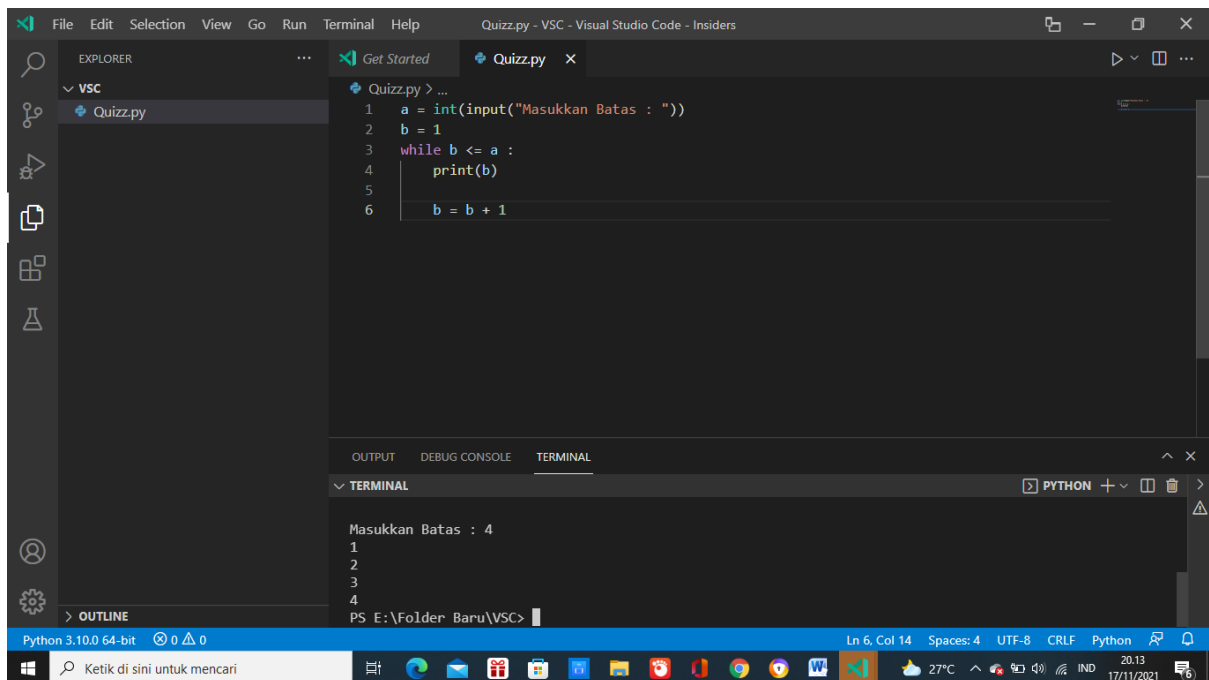
```
1 judul = "PROGRAM MENAMPAIKAN HARGA BENSIN"
2 print(judul.center(40))
3 print("-"*40)
4 satuan = 0
5 harga = 0
6 a = 0
7 b = float(input("Masukkan Bensin yang akan di beli : "))
8 print("-"*40)
9 print("Satuan      |      Harga      |")
10 while a < 10.0:
11     a += 1
12     satuan = a * 0.5
13     harga = a * 800
14
15     print("-"*40)
16     print(f"{satuan} ltr      |      Rp. {harga}      |")
17
```

OUTPUT:

```
-----
10.0 ltr      |      Rp. 16000      |

Anda Membeli 10.0 liter Bensin,
Maka Anda Harus Membayar Rp. 16000
PS E:\Folder Baru\VSC>
```

2. Program Memasukkan Batas Angka



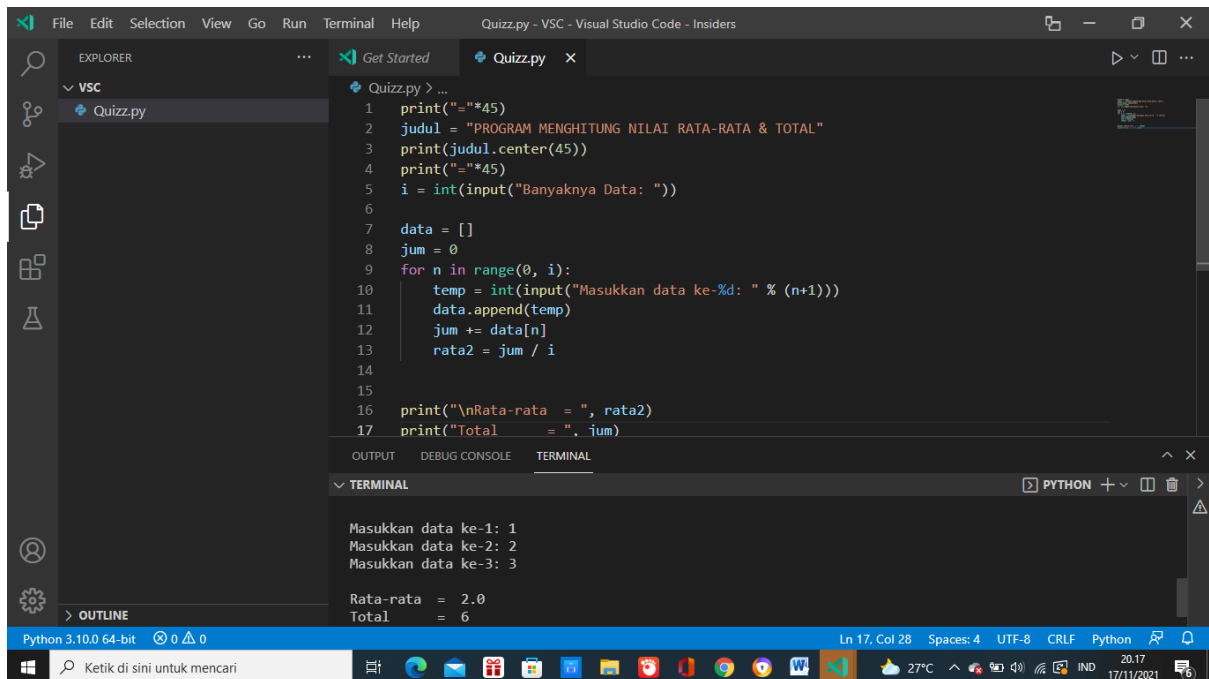
The screenshot shows a Python script in Visual Studio Code. The script prompts the user to enter a limit (Batas). It then uses a while loop to print numbers from 1 to the limit. The output is displayed in the terminal.

```
1 a = int(input("Masukkan Batas : "))
2 b = 1
3 while b <= a :
4     print(b)
5
6     b = b + 1
```

OUTPUT:

```
Masukkan Batas : 4
1
2
3
4
PS E:\Folder Baru\VSC>
```

3. Program Menghitung Nilai Rata-Rata & Total



The screenshot shows the Visual Studio Code editor with a file named `Quizz.py`. The code is a Python script that calculates the average and total of three numbers. The terminal output shows the program's execution with user input and the resulting average and total.

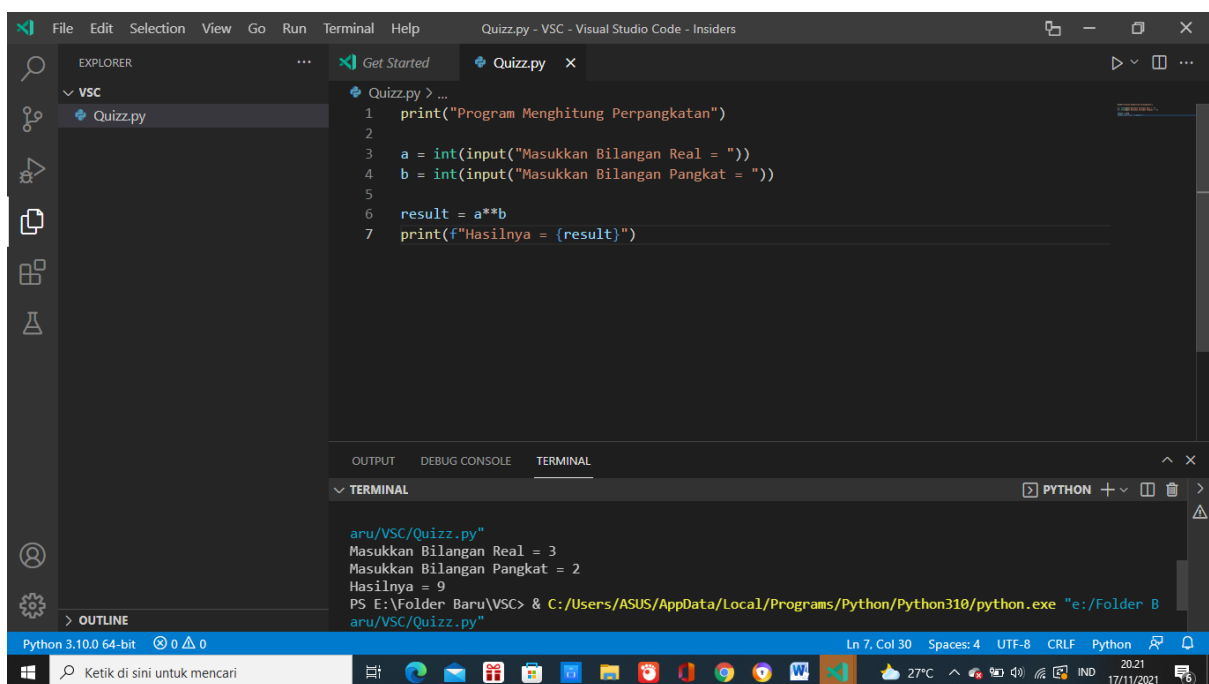
```
1 print("="*45)
2 judul = "PROGRAM MENGHITUNG NILAI RATA-RATA & TOTAL"
3 print(judul.center(45))
4 print("="*45)
5 i = int(input("Banyaknya Data: "))
6
7 data = []
8 jum = 0
9 for n in range(0, i):
10     temp = int(input("Masukkan data ke-%d: " % (n+1)))
11     data.append(temp)
12     jum += data[n]
13     rata2 = jum / i
14
15
16 print("\nRata-rata = ", rata2)
17 print("Total      = ", jum)
```

Terminal Output:

```
Masukkan data ke-1: 1
Masukkan data ke-2: 2
Masukkan data ke-3: 3

Rata-rata = 2.0
Total      = 6
```

4. Program Menghitung Perpangkatan



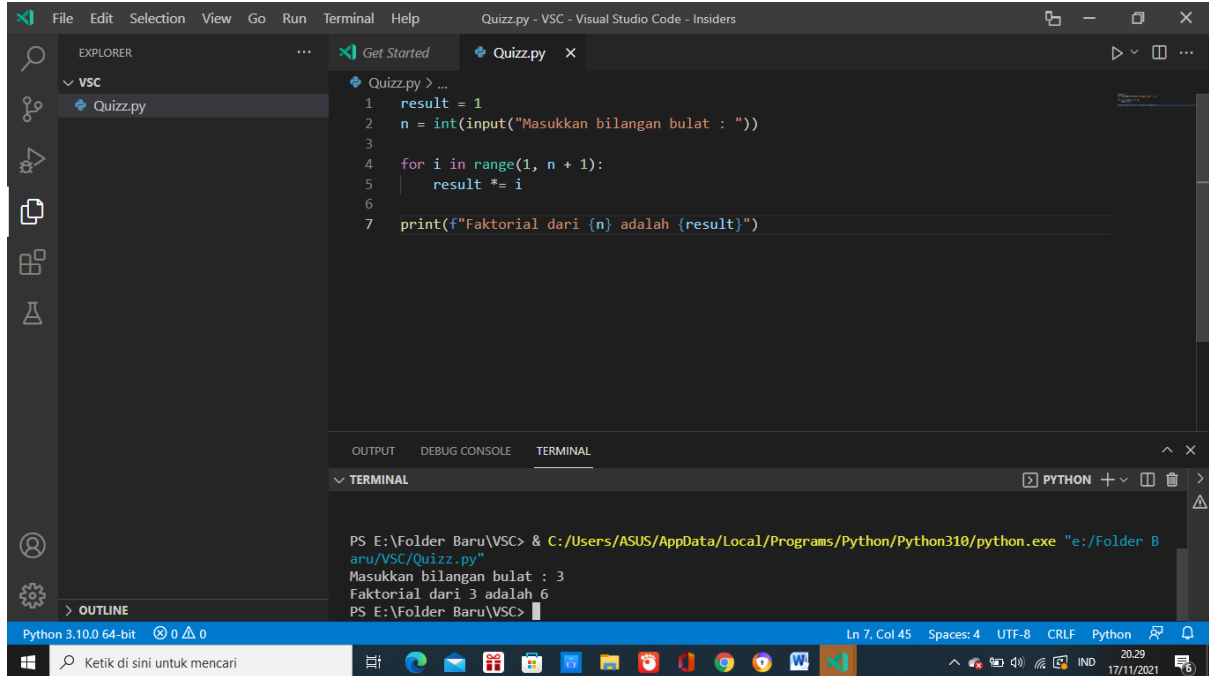
The screenshot shows the Visual Studio Code editor with a file named `Quizz.py`. The code is a Python script that calculates the power of a number. The terminal output shows the program's execution with user input and the resulting power.

```
1 print("Program Menghitung Perpangkatan")
2
3 a = int(input("Masukkan Bilangan Real = "))
4 b = int(input("Masukkan Bilangan Pangkat = "))
5
6 result = a**b
7 print(f"Hasilnya = {result}")
```

Terminal Output:

```
aru/VSC/Quizz.py
Masukkan Bilangan Real = 3
Masukkan Bilangan Pangkat = 2
Hasilnya = 9
PS E:\Folder Baru\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/Folder B
aru/VSC/Quizz.py"
```

5. Program Memasukkan Bilangan Bulat



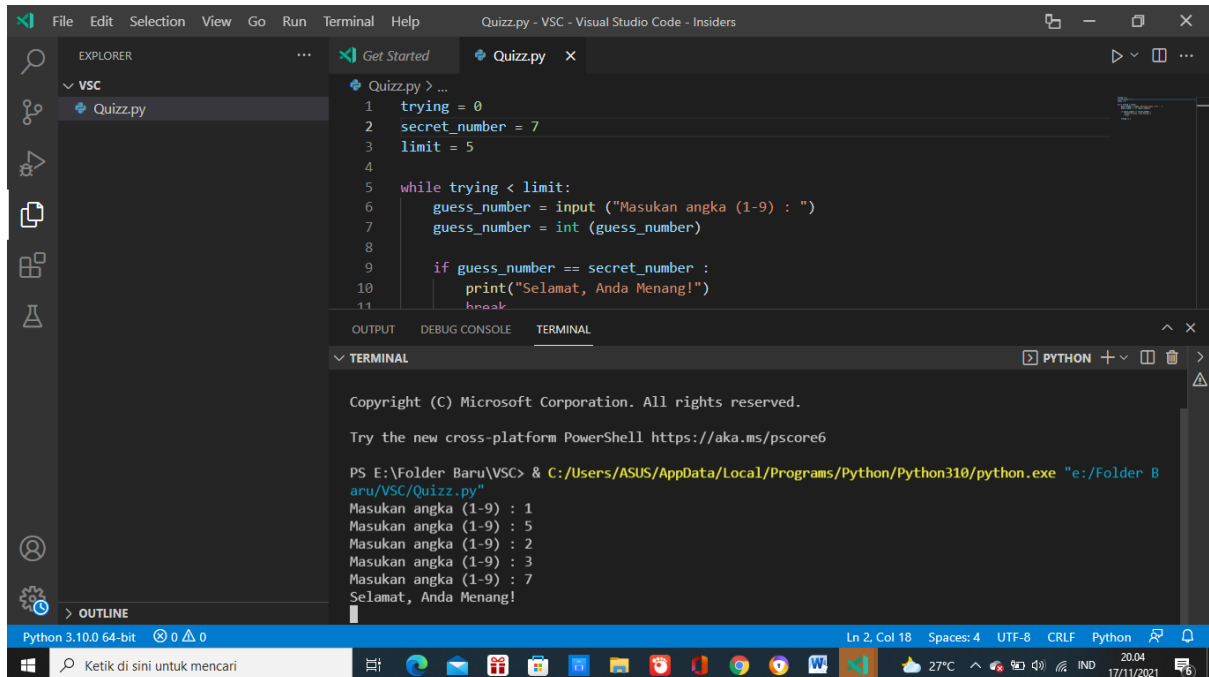
The screenshot shows the Visual Studio Code editor with a file named `Quizz.py`. The code is a Python program that calculates the factorial of a number entered by the user. The code is as follows:

```
1 result = 1
2 n = int(input("Masukkan bilangan bulat : "))
3
4 for i in range(1, n + 1):
5     result *= i
6
7 print(f"Faktorial dari {n} adalah {result}")
```

The terminal window at the bottom shows the execution of the program. The user has entered 3, and the output is "Faktorial dari 3 adalah 6".

```
PS E:\Folder Baru\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/Folder B
aru/VSC/Quizz.py"
Masukkan bilangan bulat : 3
Faktorial dari 3 adalah 6
PS E:\Folder Baru\VSC>
```

6. Program Menebak Angka



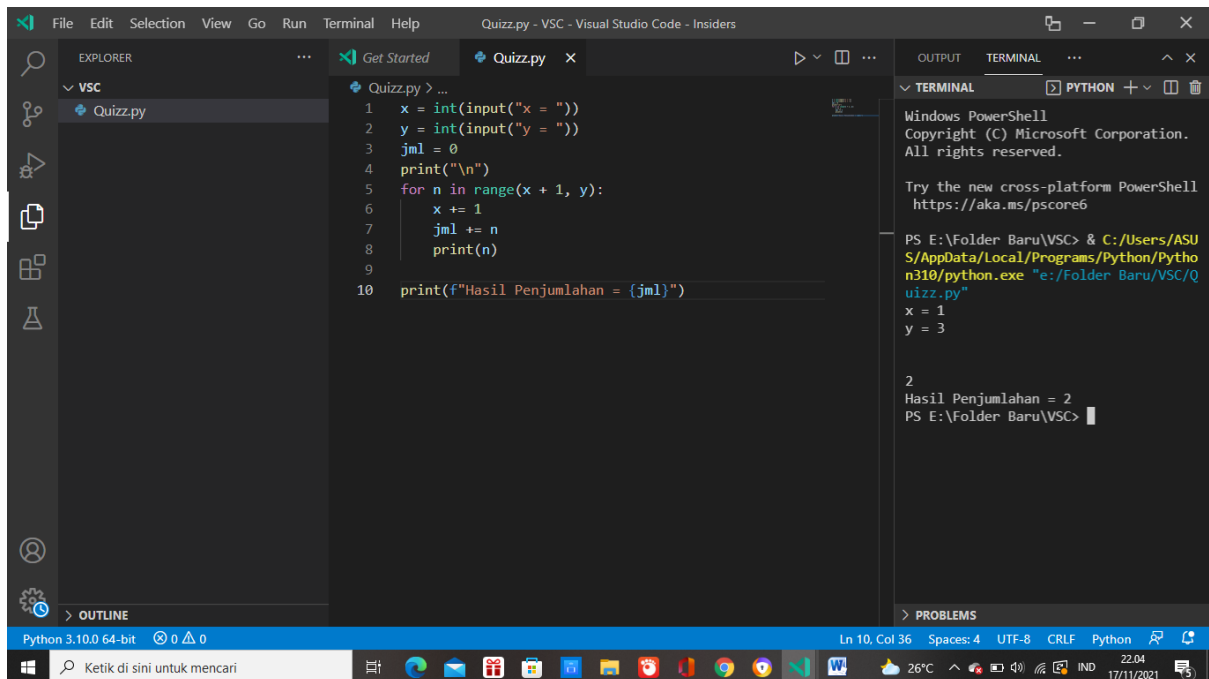
The screenshot shows the Visual Studio Code editor with a file named `Quizz.py`. The code is a Python program that guesses a number entered by the user. The code is as follows:

```
1 trying = 0
2 secret_number = 7
3 limit = 5
4
5 while trying < limit:
6     guess_number = input("Masukan angka (1-9) : ")
7     guess_number = int(guess_number)
8
9     if guess_number == secret_number :
10        print("Selamat, Anda Menang!")
11        break
```

The terminal window at the bottom shows the execution of the program. The user has entered 1, 5, 2, 3, and 7. The output is "Selamat, Anda Menang!".

```
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS E:\Folder Baru\VSC> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/Folder B
aru/VSC/Quizz.py"
Masukan angka (1-9) : 1
Masukan angka (1-9) : 5
Masukan angka (1-9) : 2
Masukan angka (1-9) : 3
Masukan angka (1-9) : 7
Selamat, Anda Menang!
```

7. Program Menjumlahkan bilangan yang terletak antara X dan Y



The screenshot shows the Visual Studio Code interface with a Python file named 'Quizz.py' open. The code in the file is as follows:

```
1 x = int(input("x = "))
2 y = int(input("y = "))
3 jml = 0
4 print("\n")
5 for n in range(x + 1, y):
6     x += 1
7     jml += n
8     print(n)
9
10 print(f"Hasil Penjumlahan = {jml}")
```

The terminal on the right shows the execution of the program. It displays the Windows PowerShell prompt, followed by the command to run the Python script. The output shows the program taking input for 'x' and 'y', and then printing the sum of numbers from 'x+1' to 'y-1'.

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

PS E:\Folder Baru\VSC> & C:/Users/ASU
S/AppData/Local/Programs/Python/Pytho
n310/python.exe "e:/Folder Baru/VSC/Q
uizz.py"
x = 1
y = 3

2
Hasil Penjumlahan = 2
PS E:\Folder Baru\VSC>
```

8.