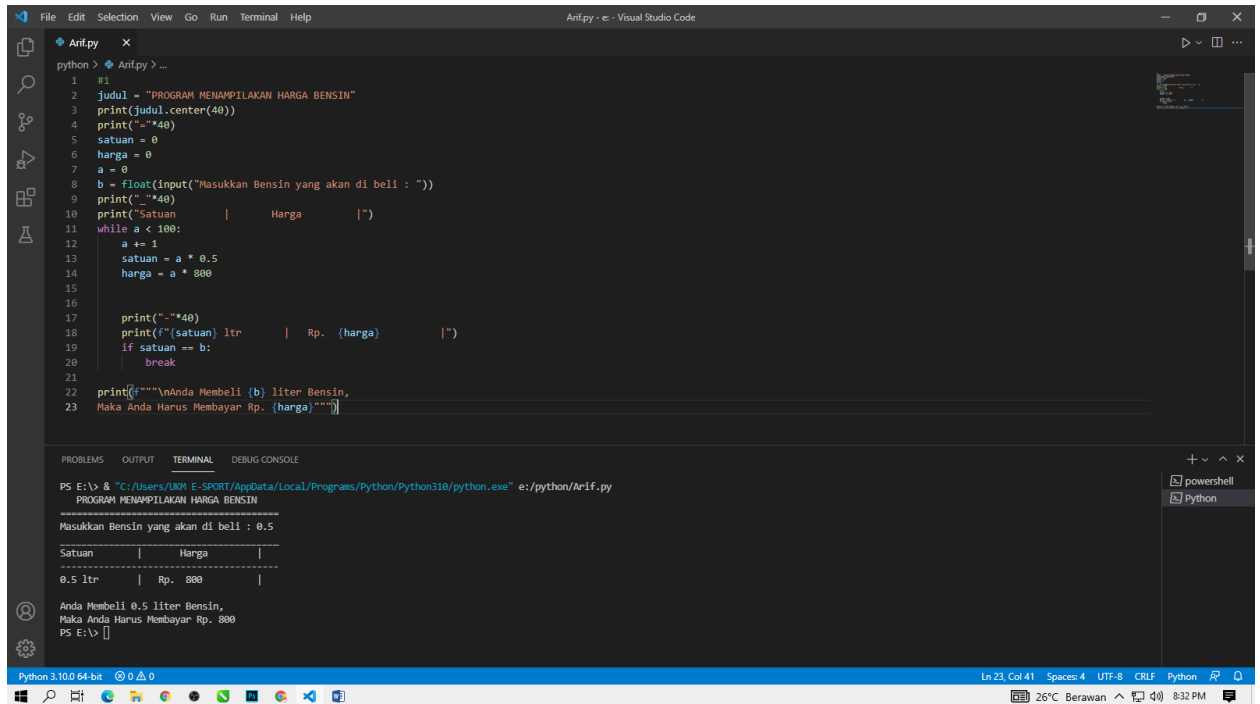


NAMA : Arif Annursida

Kelas : AI-B

NIM : 20.01.013.045

1. PROGRAM HARGA BENJIN



```
1 #1
2 judul = "PROGRAM MENAMPILAKAN HARGA BENJIN"
3 print(judul.center(40))
4 print("="*40)
5 satuan = 0
6 harga = 0
7 a = 0
8 b = float(input("Masukkan Bensin yang akan di beli : "))
9 print("="*40)
10 print("Satuan      |      Harga      |")
11 while a < 100:
12     a += 1
13     satuan = a * 0.5
14     harga = a * 800
15
16     print("="*40)
17     print(f"({satuan}) ltr      |      Rp. {harga}      |")
18     if satuan == b:
19         break
20
21 print(f"=====\nAnda Membeli {b} liter Bensin,
22 Maka Anda Harus Membayar Rp. {harga}")
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

PS E:\> & "C:/Users/UKM1 E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py

PROGRAM MENAMPILAKAN HARGA BENJIN

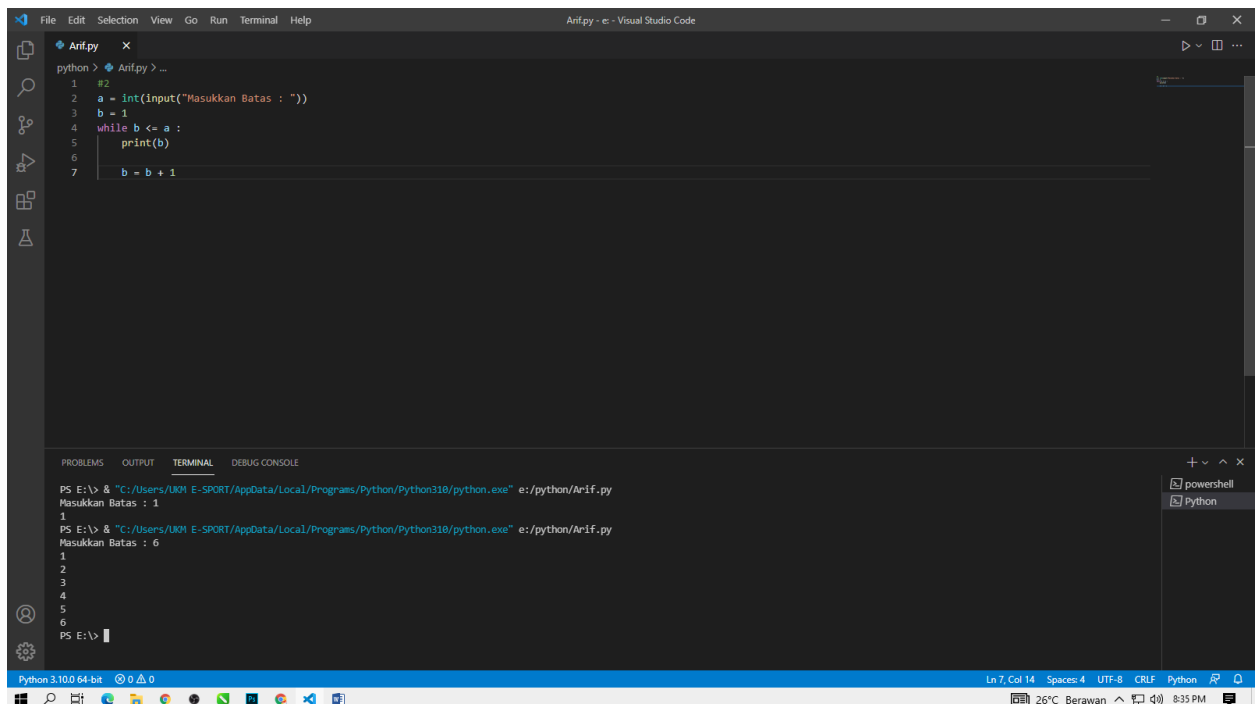
Masukkan Bensin yang akan di beli : 0.5

Satuan	Harga
0.5 ltr	Rp. 800

Anda Membeli 0.5 liter Bensin,
Maka Anda Harus Membayar Rp. 800

PS E:\>

2. PROGRAM MENAMPILKAN DERET GEOMETRI



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

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

PS E:\> & "C:/Users/UKM1 E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py

Masukkan Batas : 1

1

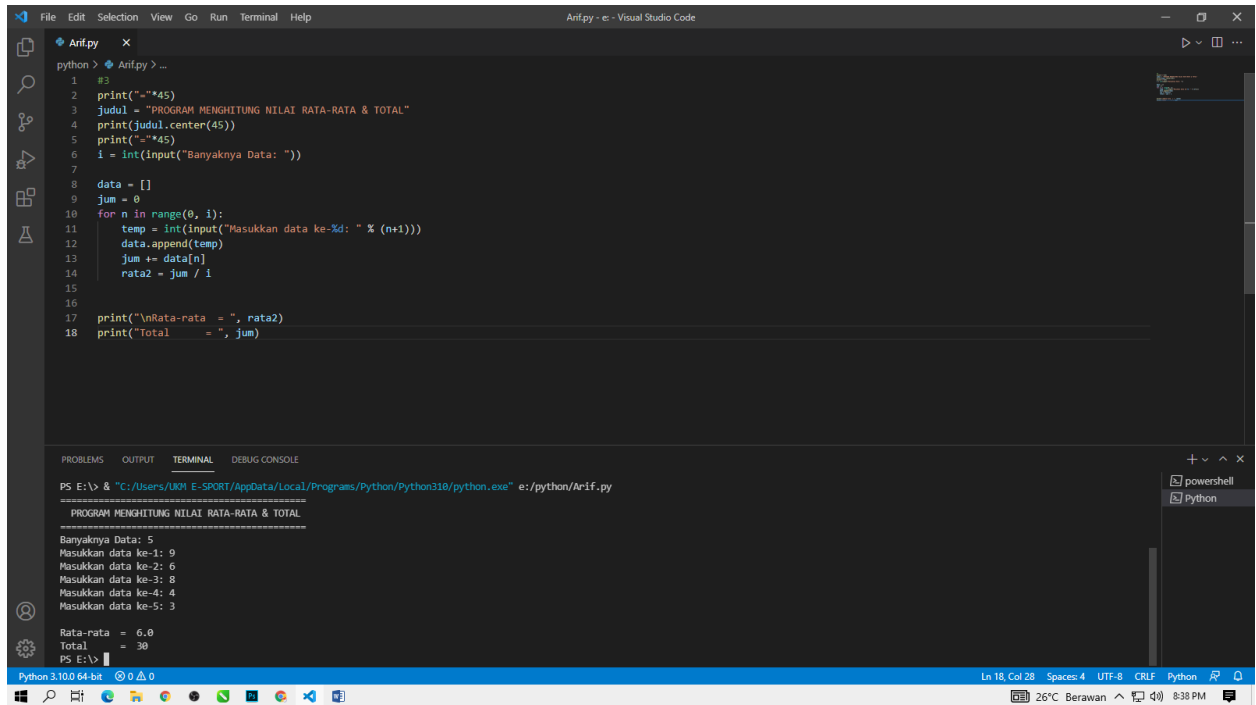
PS E:\> & "C:/Users/UKM1 E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py

Masukkan Batas : 6

1
2
3
4
5
6

PS E:\>

3. PROGRAM MENAMPILKAN TOTAL,RATA-RATA DARI BILANGAN



The screenshot shows a Visual Studio Code editor with a Python file named 'Arif.py'. The code calculates the total and average of 5 numbers. The terminal output shows the program running successfully with the following input and output:

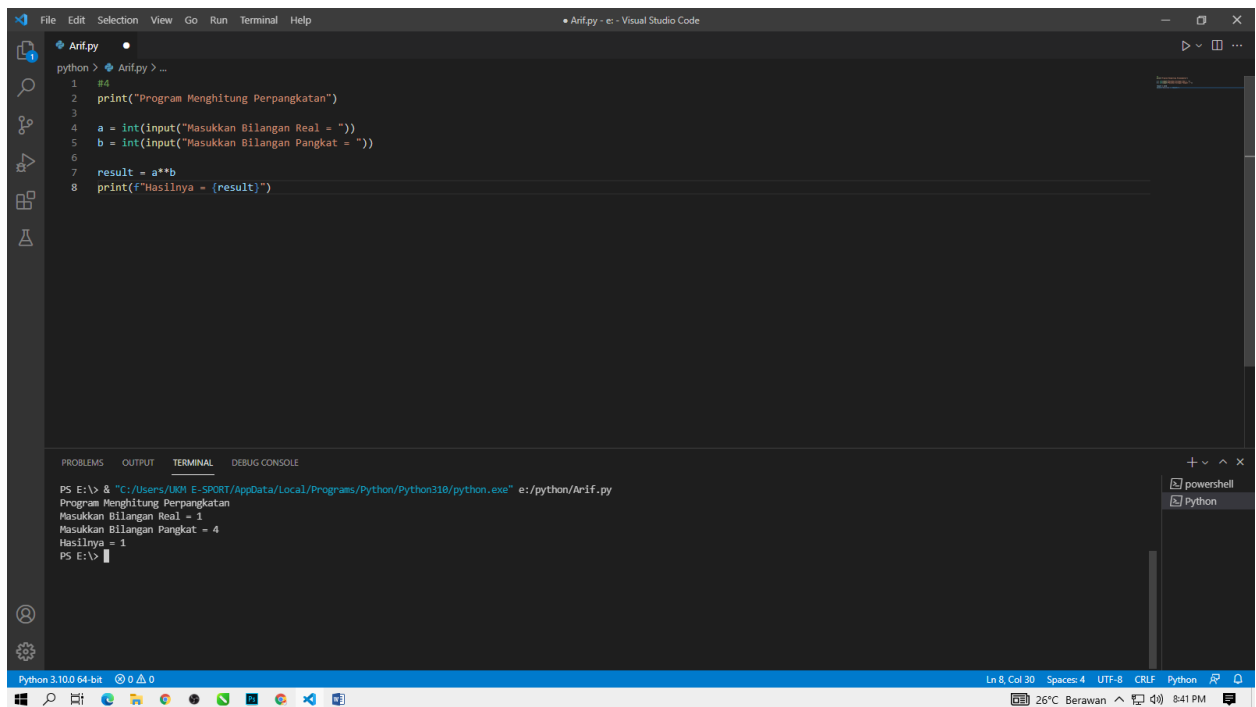
```
python> python Arif.py
1 #3
2 print("-"*45)
3 judul = "PROGRAM MENGHITUNG NILAI RATA-RATA & TOTAL"
4 print(judul.center(45))
5 print("-"*45)
6 i = int(input("Banyaknya Data: "))
7
8 data = []
9 jum = 0
10 for n in range(0, i):
11     temp = int(input("Masukkan data ke-%d: " % (n+1)))
12     data.append(temp)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

Terminal Output:

```
PS E:\> & "C:/Users/U01 E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py
=====
PROGRAM MENGHITUNG NILAI RATA-RATA & TOTAL
=====
Banyaknya Data: 5
Masukkan data ke-1: 9
Masukkan data ke-2: 6
Masukkan data ke-3: 8
Masukkan data ke-4: 4
Masukkan data ke-5: 3

Rata-rata = 6.0
Total      = 30
PS E:\>
```

4. PRGRAM MENAMPILKAN X SEBAGAI BILANGAN REAL DAN Y BILNGAN BULAT POSITIF



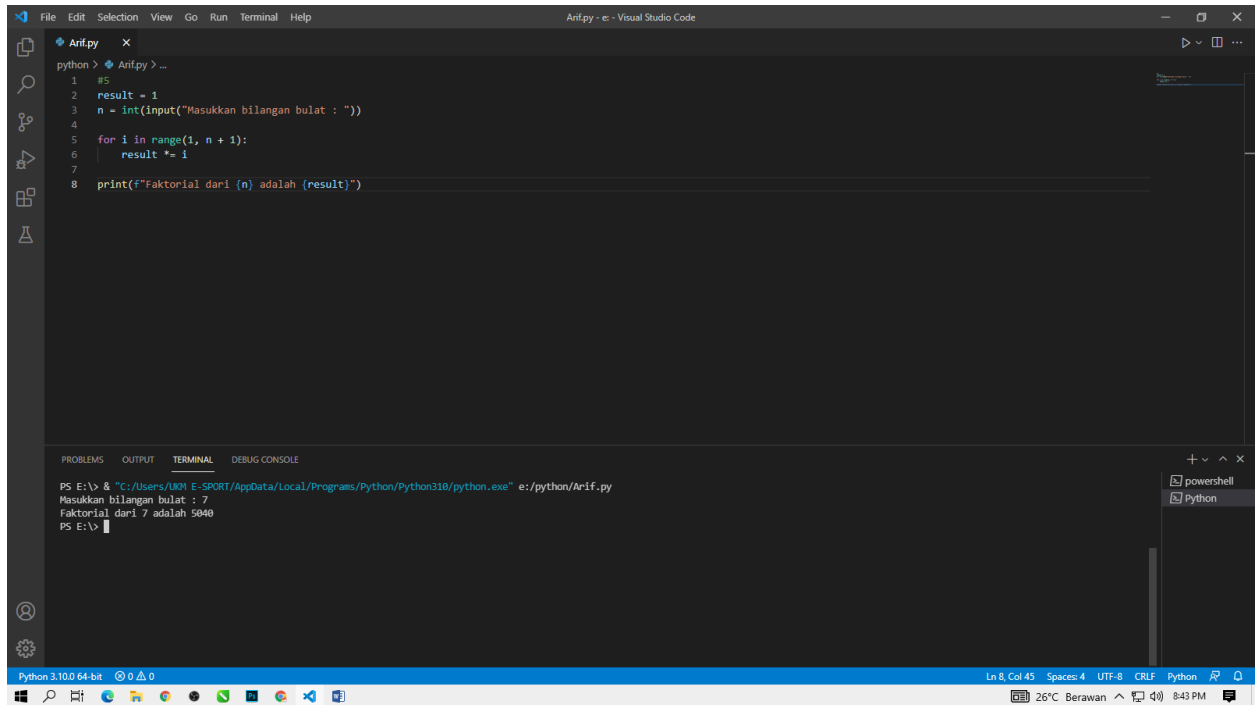
The screenshot shows a Visual Studio Code editor with a Python file named 'Arif.py'. The code calculates the power of a real number 'a' raised to a positive integer 'b'. The terminal output shows the program running successfully with the following input and output:

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

Terminal Output:

```
PS E:\> & "C:/Users/U01 E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py
Program Menghitung Perpangkatan
Masukkan Bilangan Real = 1
Masukkan Bilangan Pangkat = 4
Hasilnya = 1
PS E:\>
```

5. PROGRAM MENAMPILKAN MENGHITUNG N



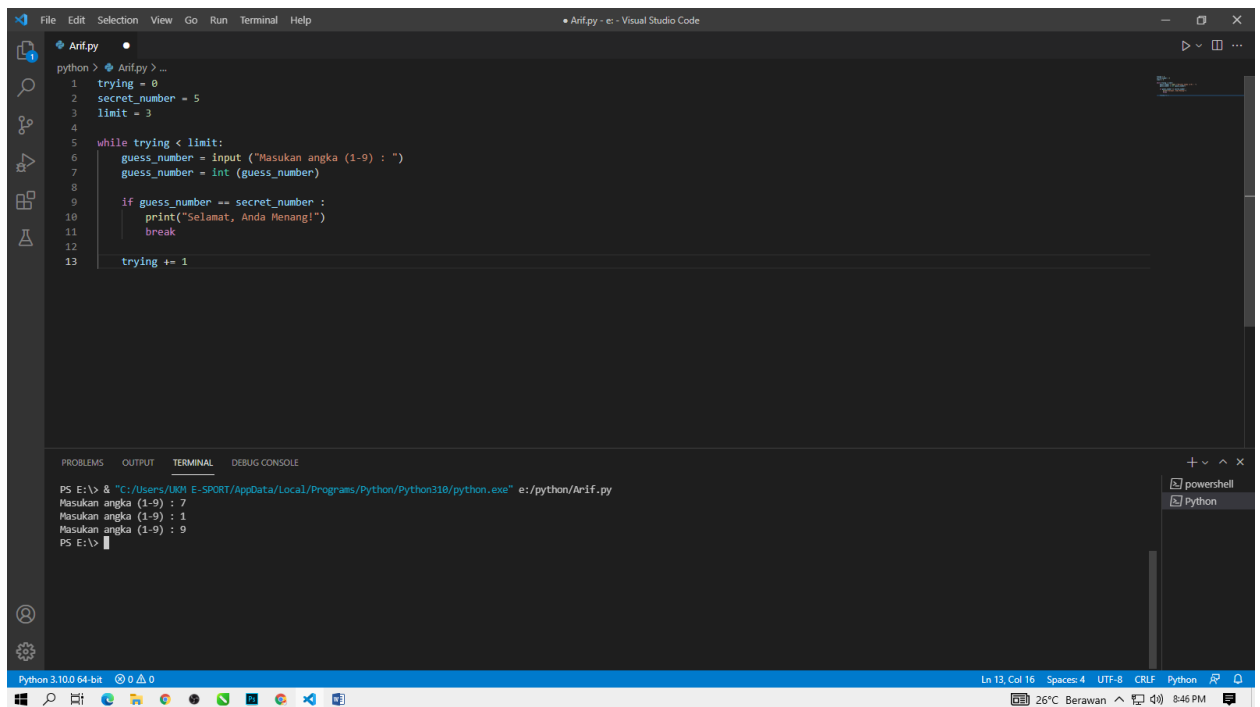
The screenshot shows the Visual Studio Code editor with a Python file named `Arif.py`. The code calculates the factorial of a number `n` entered by the user. The terminal output shows the program being executed, the user entering `7`, and the program outputting `Faktorial dari 7 adalah 5040`.

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

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS E:\> & "C:/Users/U01/E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py
Masukkan bilangan bulat : 7
Faktorial dari 7 adalah 5040
PS E:\>
```

6. PROGRAM MENAMPILKAN TEBAK ANGKA



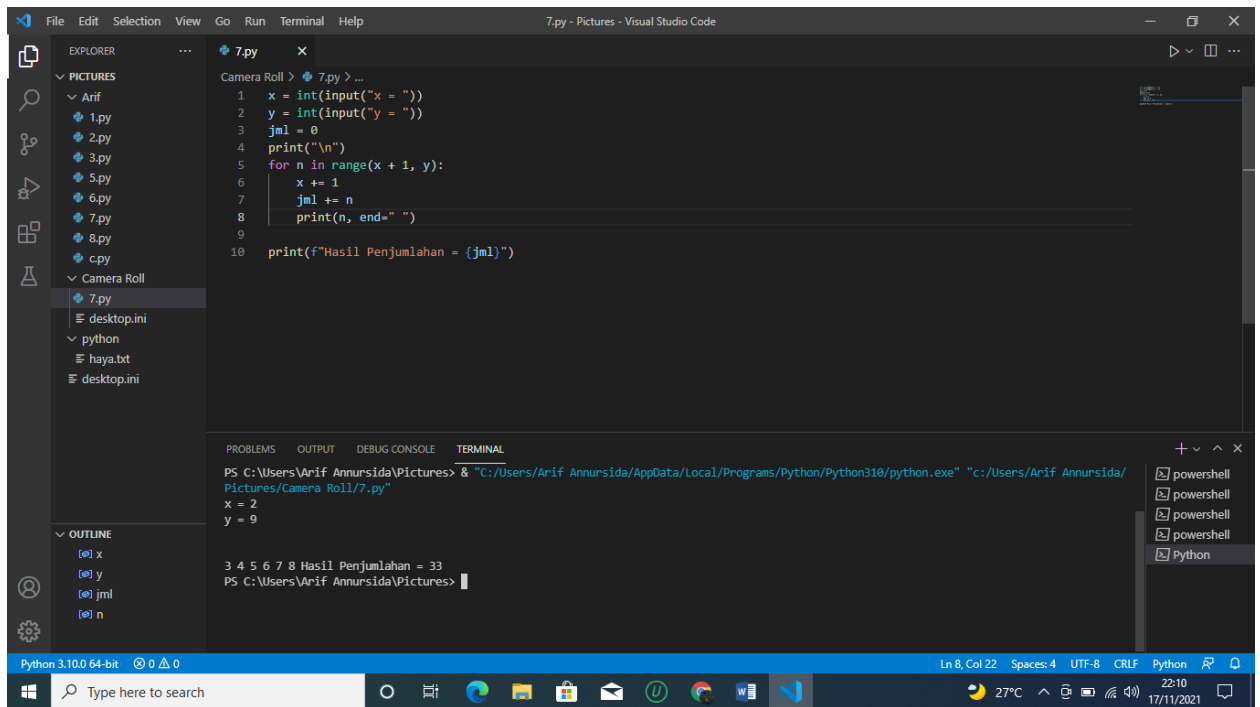
The screenshot shows the Visual Studio Code editor with a Python file named `Arif.py`. The code implements a number guessing game where the user has 5 attempts to guess a secret number between 1 and 9. The terminal output shows the program being executed, the user entering `7`, `1`, and `9`, and the program outputting `Selamat, Anda Menang!` after the first guess.

```
python > Arif.py > ...
1 trying = 0
2 secret_number = 5
3 limit = 3
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
12
13    trying += 1
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS E:\> & "C:/Users/U01/E-SPORT/AppData/Local/Programs/Python/Python310/python.exe" e:/python/Arif.py
Masukan angka (1-9) : 7
Masukan angka (1-9) : 1
Masukan angka (1-9) : 9
PS E:\>
```

7. PROGRAM MENAMPILKAN JUMLAH X DAN Y



```
File Edit Selection View Go Run Terminal Help
7.py - Pictures - Visual Studio Code

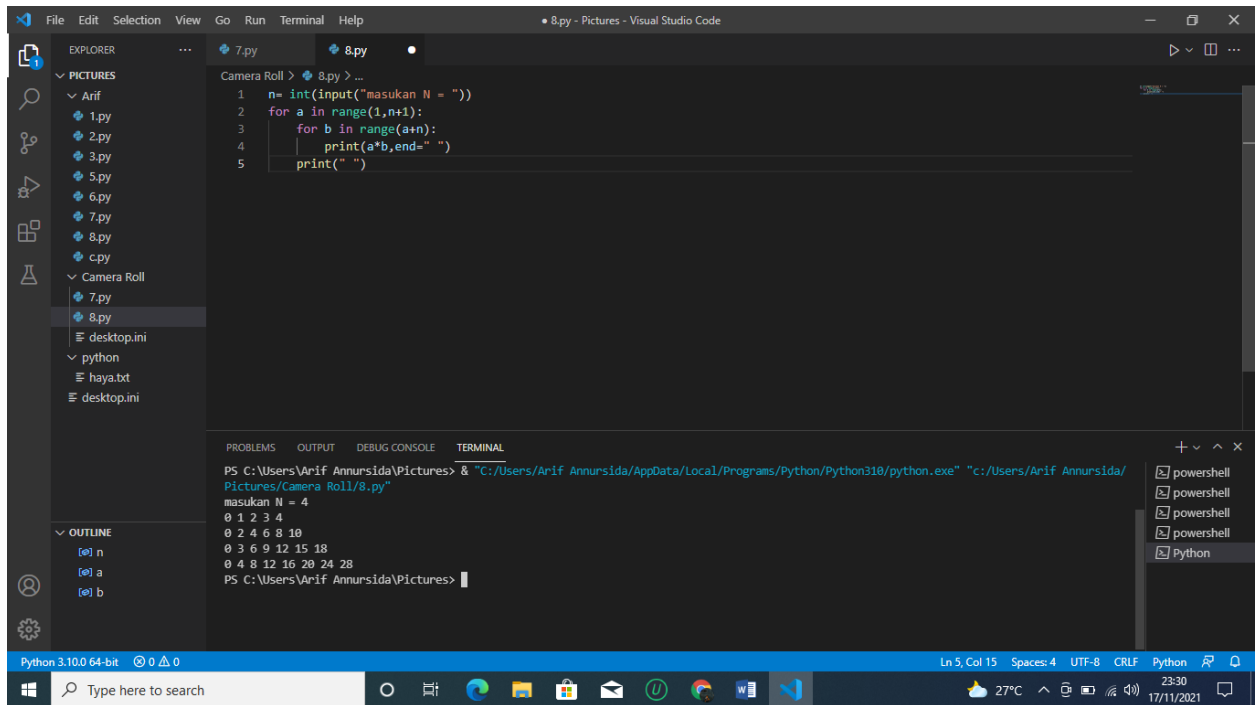
EXPLORER
  PICTURES
    Arif
      1.py
      2.py
      3.py
      5.py
      6.py
      7.py
      8.py
      c.py
    Camera Roll
      7.py
      desktop.ini
    python
      haya.txt
      desktop.ini

OUTLINE
  (e) x
  (e) y
  (e) jml
  (e) n

7.py
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, end=" ")
9
10 print(f"Hasil Penjumlahan = {jml}")

TERMINAL
PS C:\Users\Arif Annursida\Pictures> & "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "c:/Users/Arif Annursida/Pictures/Camera Roll/7.py"
x = 2
y = 9
3 4 5 6 7 8 Hasil Penjumlahan = 33
PS C:\Users\Arif Annursida\Pictures>
```

8. PROGRAM MENAMPILKAN NILAI N



```
File Edit Selection View Go Run Terminal Help
8.py - Pictures - Visual Studio Code

EXPLORER
  PICTURES
    Arif
      1.py
      2.py
      3.py
      5.py
      6.py
      7.py
      8.py
      c.py
    Camera Roll
      7.py
      8.py
      desktop.ini
    python
      haya.txt
      desktop.ini

OUTLINE
  (e) n
  (e) a
  (e) b

8.py
1 n= int(input("masukan N = "))
2 for a in range(1,n+1):
3     for b in range(a+1):
4         print(a*b,end=" ")
5     print("\n")

TERMINAL
PS C:\Users\Arif Annursida\Pictures> & "C:/Users/Arif Annursida/AppData/Local/Programs/Python/Python310/python.exe" "c:/Users/Arif Annursida/Pictures/Camera Roll/8.py"
masukan N = 4
0 1 2 3 4
0 2 4 6 8 10
0 3 6 9 12 15 18
0 4 8 12 16 20 24 28
PS C:\Users\Arif Annursida\Pictures>
```

