

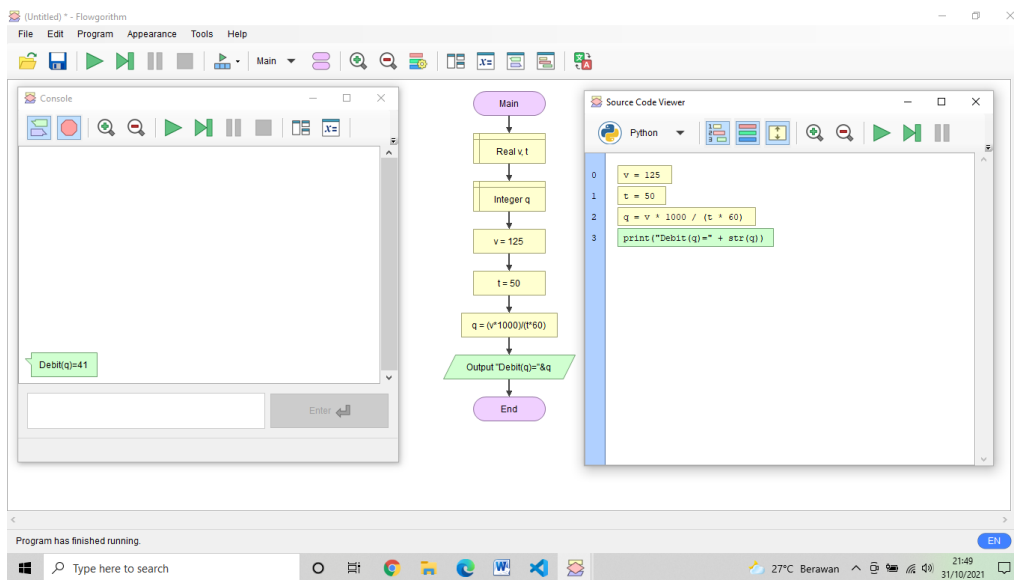
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Nim: 20.01.013.048

Kelas: AI-B

1. Di Kampus UTS memiliki pipa yang bisa mengalirkan air sebanyak 125 liter air dalam waktu 50 menit. Berapa  $\text{cm}^3/\text{detik}$  debit anutan pipa air tersebut?

### "Konsep 1"



The screenshot shows a Visual Studio Code editor with a Python script and its execution output in the terminal.

**Python Script (AI(2).py):**

```
1 v = 125
2 t = 50
3 q = v * 1000 / (t * 60)
4 print("Debit(q)=" + str(q))
5
```

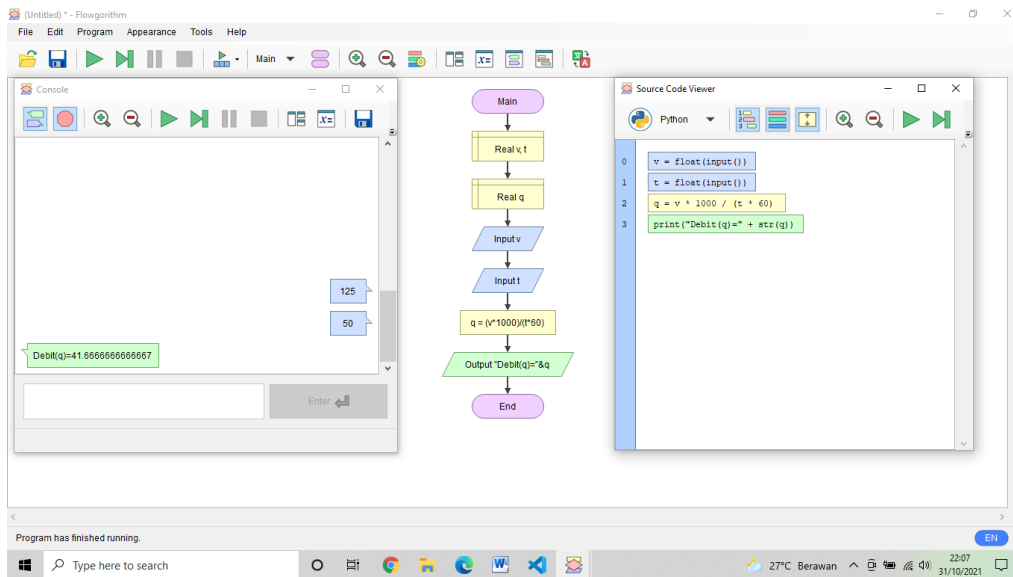
**Terminal Output:**

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

PS C:\AI_PYTHON LANGUAGE> & "c:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe" -i
c:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe
Python 3.10.0 64-bit
Debit(q)=41.666666666666664
PS C:\AI_PYTHON LANGUAGE>
```

## "Konsep 2"



The image shows a screenshot of the Visual Studio Code editor. The file explorer on the left shows a file named 'AI(3).py'. The editor window displays the following Python code:

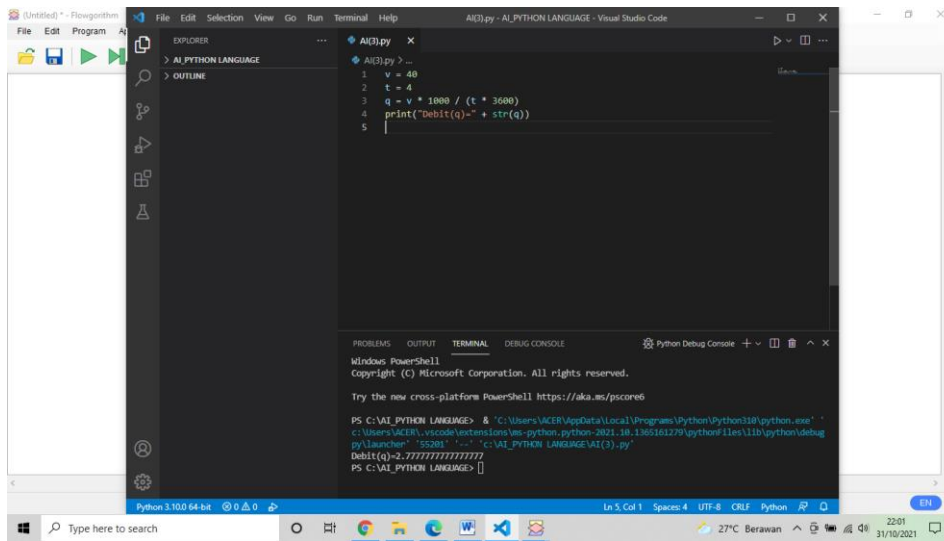
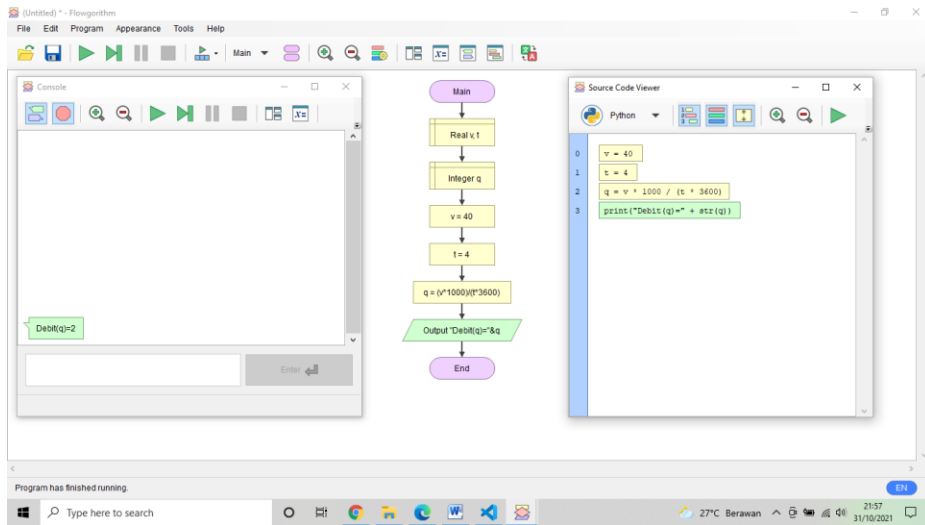
```
1 v = float(input("Masukkan Volume = "))
2 t = float(input("Masukkan Time = "))
3 q = v * 1000 / (t * 60)
4 print("Debit(q) = " + str(q))
5
```

The terminal window at the bottom shows the execution output:

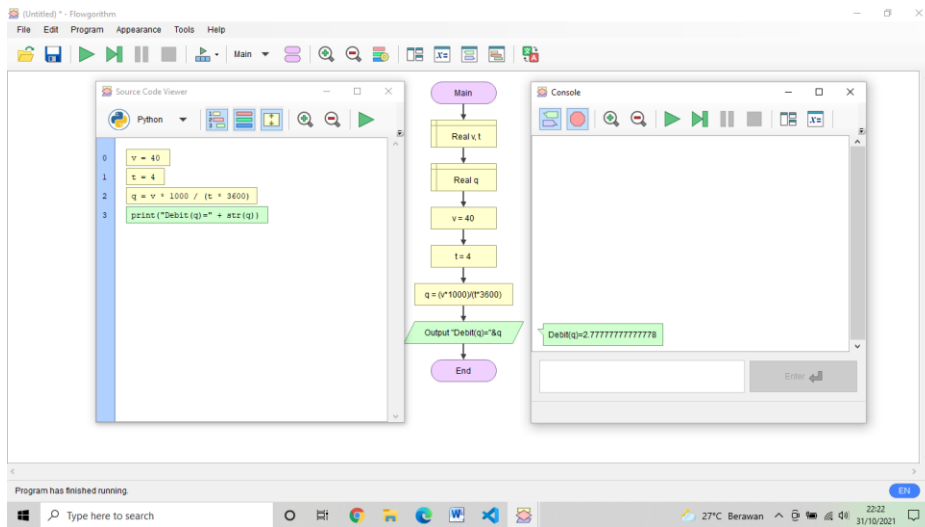
```
PS C:\VAI_PYTHON_LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/VAI_PYTHON_LANGUAGE/AI(3).py"
Masukkan Volume = 125
Masukkan Time = 50
Debit(q)=41.666666666666664
PS C:\VAI_PYTHON_LANGUAGE>
```

2. Kubangan Kerbau mempunyai volume 40 m<sup>3</sup> diisi dengan air, memakai pipa. Waktu yang diperlukan untuk mengisinya sampai penuh yaitu 4 jam. Berapa liter/detik debit air yang keluar dari pipa tersebut?

Konsep 1



## Konsep 2



```
AI(3).py - AI_PYTHON LANGUAGE - Visual Studio Code
1 v = 40
2 t = 4
3 q = v * 1000 / (t * 60)
4 print("Debit(q) = ")
5
```

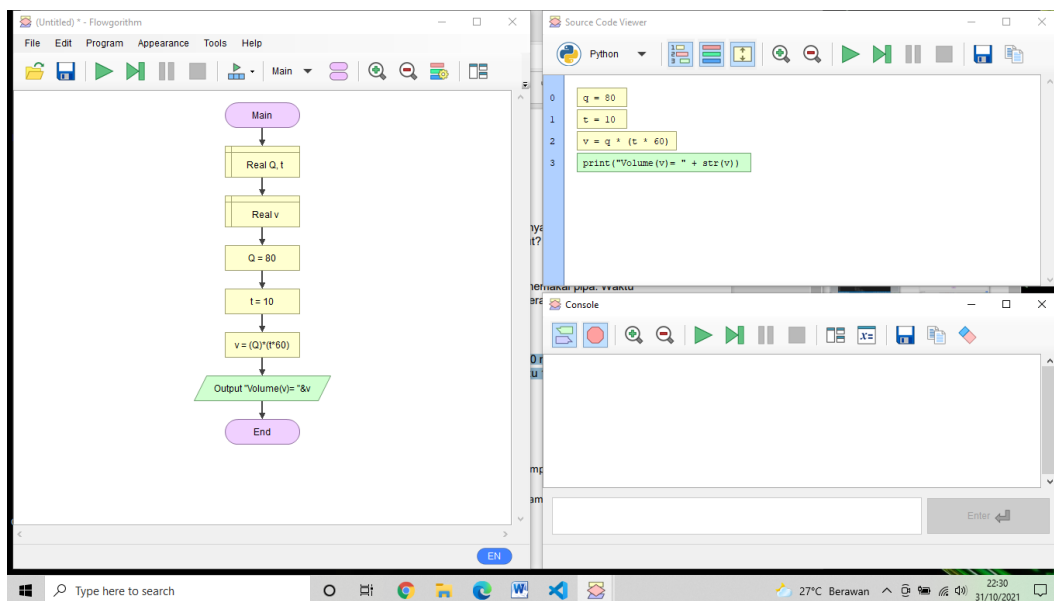
```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\AI_PYTHON LANGUAGE> & C:\Users\ACER\AppData\Local\Programs\Python\Python318\python.exe "c:/AI_PYTHON LANGUAGE/AI(3).py"
Debit(q)=2.7777777777777777
PS C:\AI_PYTHON LANGUAGE>
```

3. Terdapat sebuah air terjun yang mempunyai debit air sebesar 80 m<sup>3</sup>/detik. Berapa banyak air yang bisa dipindahkan air terjun tersebut dalam waktu 10 menit?

### Konsep 1



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a file named 'AI(3).py'. The main editor displays the following Python code:

```
1 q = 80
2 t = 10
3 v = q * (t * 60)
4 print("Volume(v)= " + str(v))
5
```

The TERMINAL pane at the bottom shows the execution of the script in a Windows PowerShell window:

```
PS C:\VAI_PYTHON LANGUAGE> & C:\Users\ACIR\AppData\Local\Program\Python\Python310/python.exe "c:/AI_PYTHON_LANGUAGE/AI(3).py"
Volume(v)= 48000
PS C:\VAI_PYTHON LANGUAGE>
```

## Konsep 2

