

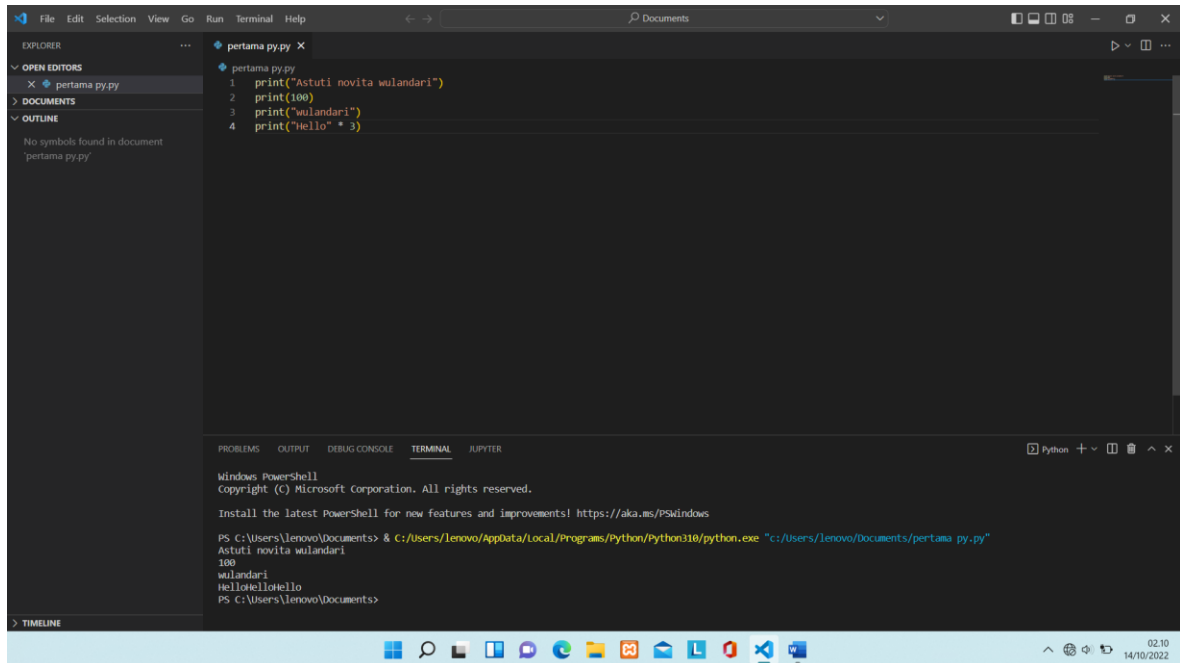
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KELAS : D / KECERDASAN BUATAN

1. PROGRAM PYTHON PERTAMA

Python adalah sebuah bahasa pemrograman yang digunakan untuk membuat aplikasi, perintah computer dan melakukan analisis data.



The screenshot shows a Windows IDE with a dark theme. The Explorer pane on the left shows a file named 'pertama.py' in the 'DOCUMENTS' folder. The Editor pane displays the following Python code:

```
1 print("Astuti novita wulandari")
2 print(100)
3 print("wulandari")
4 print("Hello" * 3)
```

The Terminal pane at the bottom shows the command prompt output after running the script:

```
Windows PowerShell
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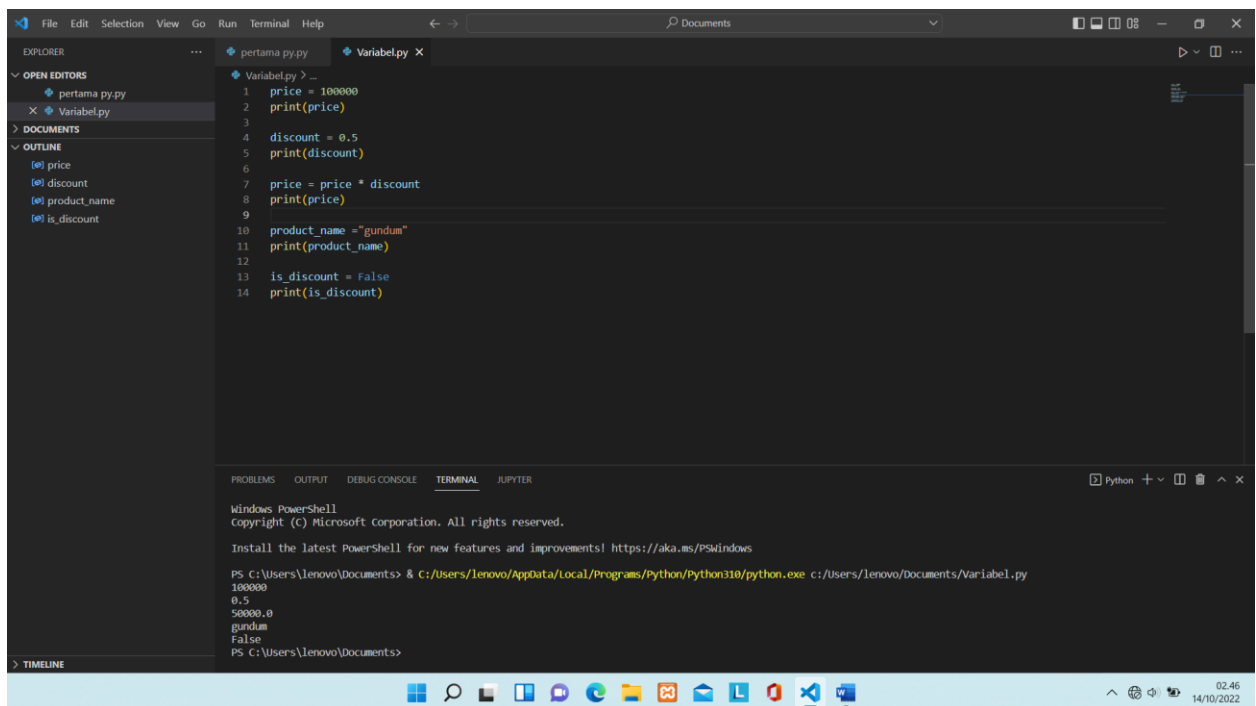
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\lenovo\Documents> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/lenovo/Documents/pertama.py"
Astuti novita wulandari
100
wulandari
HelloHelloHello
PS C:\Users\lenovo\Documents>
```

The taskbar at the bottom shows the Windows Start button, search icon, and several application icons. The system clock in the bottom right corner indicates the time is 02:10 on 14/10/2022.

2. VARIABEL DAN TIPE DATA

Variabel adalah setiap karakteristik jumlah atau kuantitas yang dapat diukur atau dihitung sedangkan Tipe data adalah klasifikasi data yang mengenalkan kompilator atau penerjemah bagaimana programmer bermaksud untuk menggunakan data. Sebagian besar bahasa pemrograman mendukung tipe data dasar akan bilangan interger, bilangan titik mengambang, karakter dan Boolean.



The screenshot shows a code editor with a Python file named 'Variabel.py'. The code defines variables for price, discount, product_name, and is_discount, and prints their values. Below the code, a terminal window shows the execution output.

```
1 price = 100000
2 print(price)
3
4 discount = 0.5
5 print(discount)
6
7 price = price * discount
8 print(price)
9
10 product_name = "gundum"
11 print(product_name)
12
13 is_discount = False
14 print(is_discount)
```

Terminal Output:

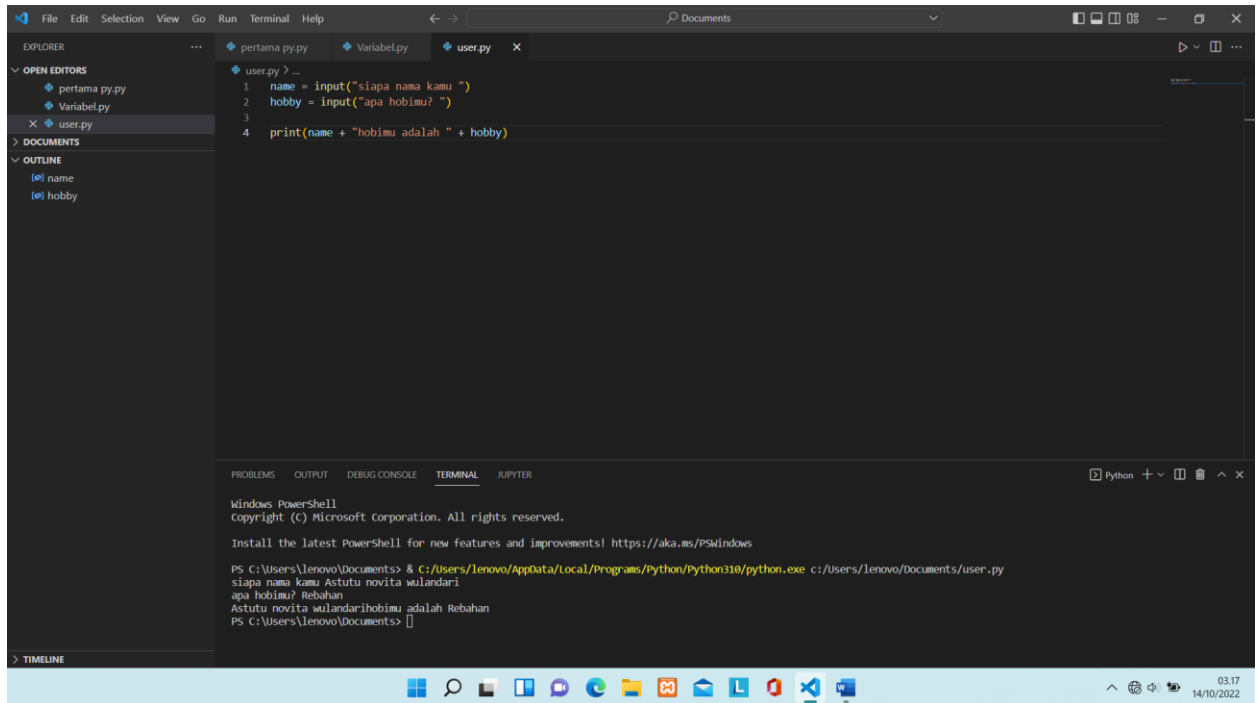
```
Windows PowerShell
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PS C:\Users\lenovo\Documents> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe c:\Users\lenovo\Documents\Variabel.py
100000
0.5
50000.0
gundum
False
PS C:\Users\lenovo\Documents>
```

3. MENERIMA INPUT USER

Terkadang program kita membutuhkan input dari user secara langsung. Input dari user tersebut kemudian kita proses dalam program yang kita buat untuk keperluan tertentu



The screenshot shows a Python IDE with a dark theme. The Explorer panel on the left shows a project named 'Documents' containing three files: 'pertama.py', 'Variabel.py', and 'user.py'. The 'user.py' file is open in the editor, showing the following code:

```
1 name = input("siapa nama kamu ")
2 hobby = input("apa hobimu? ")
3
4 print(name + "hobimu adalah " + hobby)
```

The Outline panel on the left shows the variables 'name' and 'hobby' defined in the file. The Terminal panel at the bottom shows the execution of the program using the command prompt. The output is as follows:

```
Windows PowerShell
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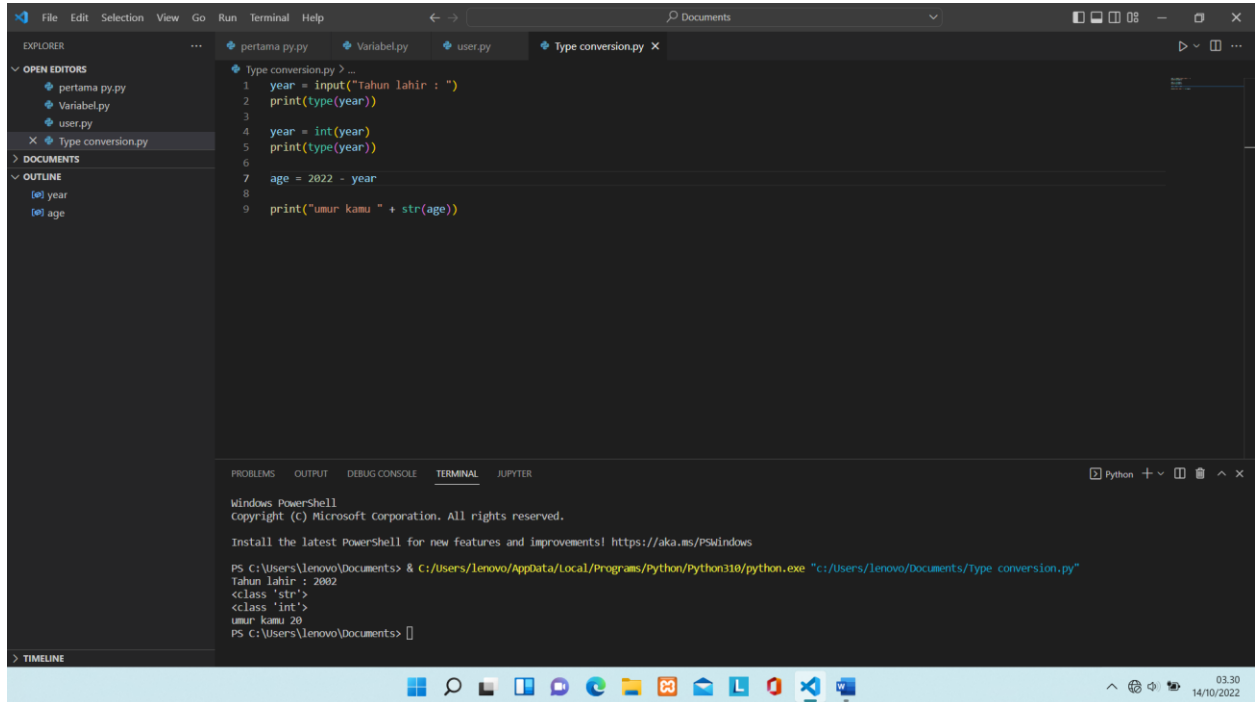
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\lenovo\Documents> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe c:\Users\lenovo\Documents\user.py
siapa nama kamu Astutu novita mulandari
apa hobimu? Rebahan
Astutu novita mulandarihobimu adalah Rebahan
PS C:\Users\lenovo\Documents>
```

The Windows taskbar at the bottom shows the time as 03:17 on 14/10/2022.

4. TYPE CONVERSION

Type conversion adalah pengubahan suatu tipe ke tipe lainya.yang merupakan string ingin kita ubah menjadi dalam bentuk angka.



The screenshot shows a Visual Studio Code editor with a Python file named 'Type conversion.py'. The code in the file is as follows:

```
1 year = input("Tahun lahir : ")
2 print(type(year))
3
4 year = int(year)
5 print(type(year))
6
7 age = 2022 - year
8
9 print("umur kamu " + str(age))
```

The left sidebar shows the Explorer view with the file 'Type conversion.py' selected. The bottom panel shows the Terminal view with the following output:

```
Windows PowerShell
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PS C:\Users\lenovo\Documents> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/lenovo/Documents/type_conversion.py"
Tahun lahir : 2002
<class 'str'>
<class 'int'>
umur kamu 20
PS C:\Users\lenovo\Documents>
```

The status bar at the bottom right indicates the time is 03:30 on 14/10/2022.