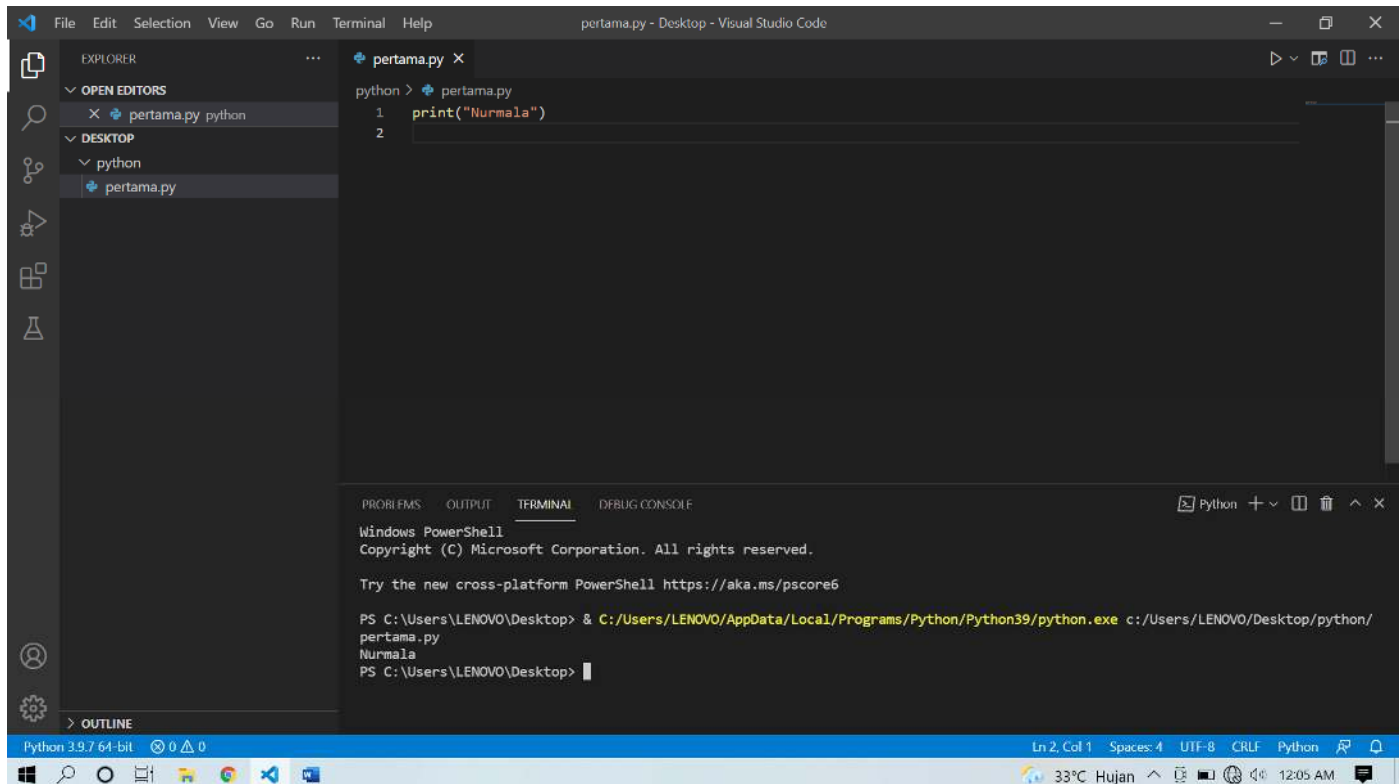


NAMA : NURMALA
NIM : 20.01.013.069
PRODI : TEKNIK INFORMATIKA

1. Print ini adalah function yaitu bawaan dari python. Print adalah sebuah perintah yang tandanya () dan tanda petik, disini kita bisa masukan kalimat apa saja di dalam print contohnya adalah kalimat nurmala, kalimat disini merupakan string yaitu beberapa karakter.



```
File Edit Selection View Go Run Terminal Help
pertama.py - Desktop - Visual Studio Code

EXPLORER
OPEN EDITORS
  X pertama.py python
DESKTOP
  python
    pertama.py

python > pertama.py
1 print("Nurmala")
2

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/
pertama.py
Nurmala
PS C:\Users\LENOVO\Desktop>
```

- Disini kita melakukan print nama atau mencetak nama sebanyak 3 kali secara berurutan dari urutan pertama sampai terakhir. Karena python sendiri akan membaca program print yang dicetak secara berurutan di mulai dari pertama sampai terakhir.

```
File Edit Selection View Go Run Terminal Help
pertama.py - Desktop - Visual Studio Code

EXPLORER
  OPEN EDITORS
    pertama.py python
  DESKTOP
    python
      pertama.py

python > pertama.py
1 print("Nurmala")
2 print("Nur")
3 print("Mala")

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/pertama.py
Nurmala
Nur
Mala
PS C:\Users\LENOVO\Desktop>
```

➤ Kita juga bisa meletakkan tipe data yang lain di dalam print untuk dicetak

```
File Edit Selection View Go Run Terminal Help
pertama.py - Desktop - Visual Studio Code

EXPLORER
  OPEN EDITORS
    pertama.py python
  DESKTOP
    python
      pertama.py

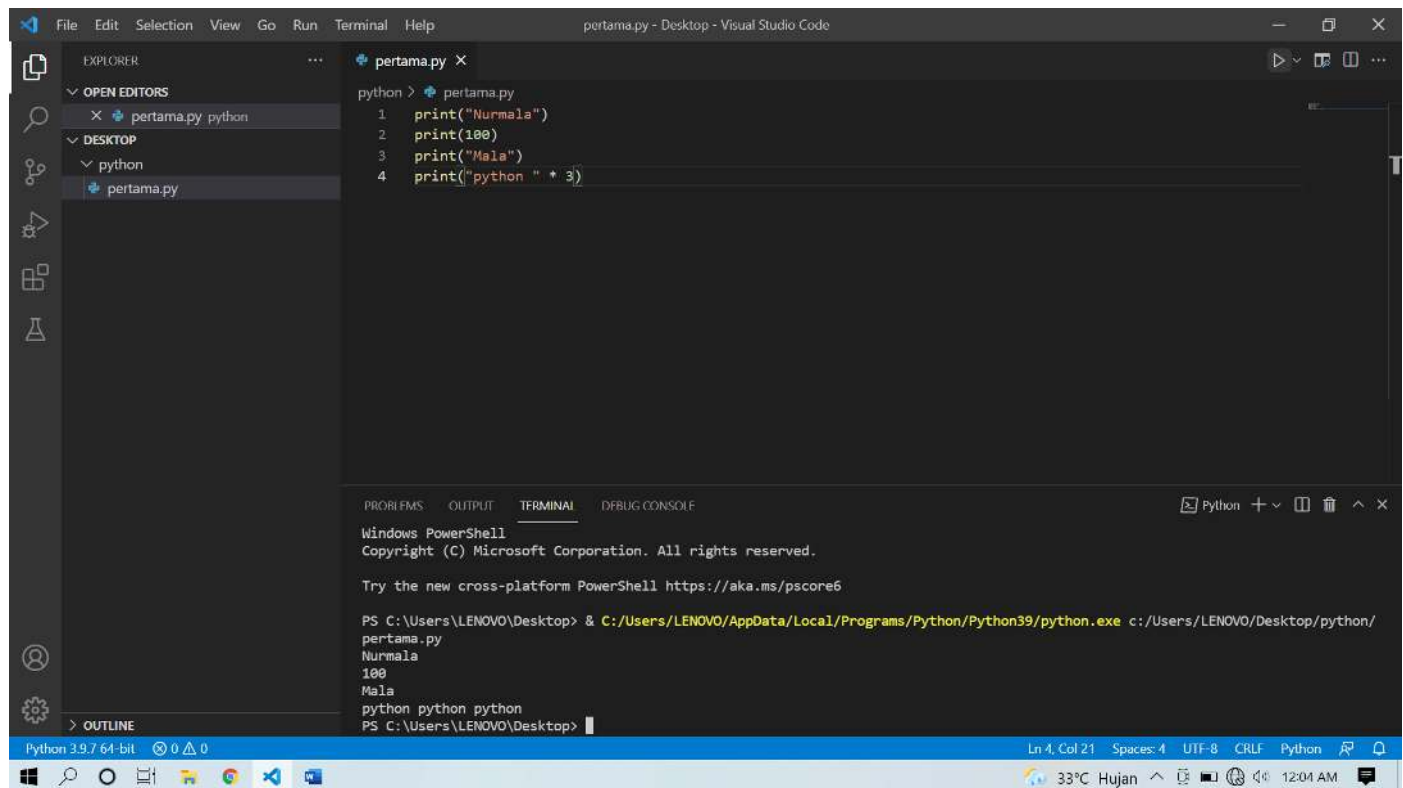
python > pertama.py
1 print("Nurmala")
2 print(100)
3 print("Mala")

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/pertama.py
Nurmala
100
Mala
PS C:\Users\LENOVO\Desktop>
```

➤ Disini print juga bisa mencetak python sebanyak 3 kali karena di dalam print kita memasukkan python dikali dengan 3. Maka hasil outputnya akan keluar sebanyak 3 kali.



```
File Edit Selection View Go Run Terminal Help
pertama.py - Desktop - Visual Studio Code

EXPLORER
OPEN EDITORS
  X pertama.py python
DESKTOP
  python
    pertama.py

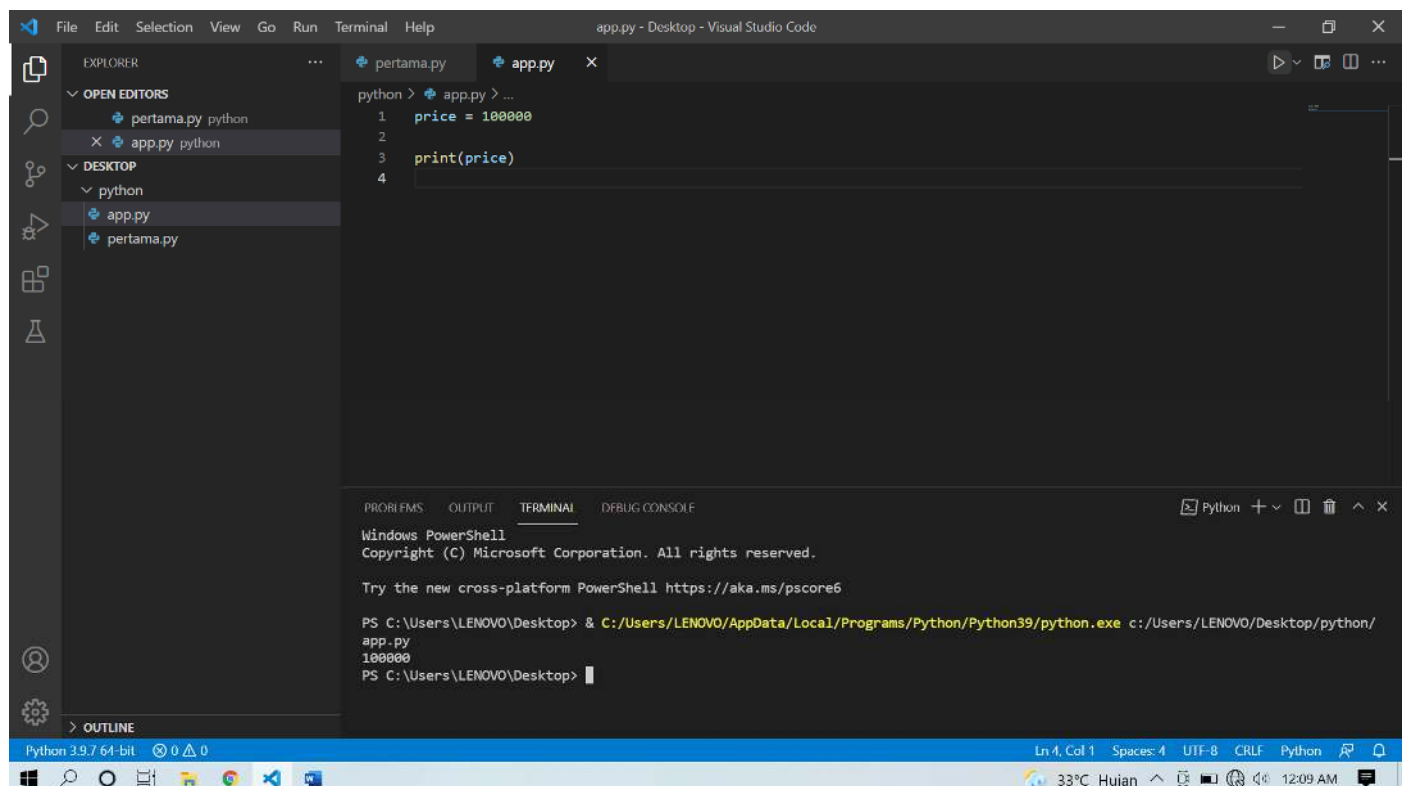
python > pertama.py
1 print("Nurmala")
2 print(100)
3 print("Mala")
4 print("python " + 3)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/pertama.py
Nurmala
100
Mala
python python python
PS C:\Users\LENOVO\Desktop>
```

- Disini kita membuat sebuah variabel, variabelnya adalah harga atau price, cetak printnya yaitu variabel price maka print akan mencetak nilai yang ada di dalam variabel price



```
File Edit Selection View Go Run Terminal Help
app.py - Desktop - Visual Studio Code

EXPLORER
OPEN EDITORS
  pertama.py python
  X app.py python
DESKTOP
  python
    app.py
    pertama.py

python > app.py > ...
1 price = 100000
2
3 print(price)
4

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/app.py
100000
PS C:\Users\LENOVO\Desktop>
```

- Print yang kedua akan mencetak variabelnya yaitu tulisan price

```
File Edit Selection View Go Run Terminal Help
app.py - Desktop - Visual Studio Code

EXPLORER
OPEN EDITORS
  pertama.py python
  app.py python
DESKTOP
  python
    app.py
    pertama.py

python > app.py > ...
1 price = 100000
2
3 print(price)
4 print("price")
5

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python + - [ ] [X] [^] [v] [X]

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/app.py
100000
price
PS C:\Users\LENOVO\Desktop>
```

- variabel yang pertama tadi dia menyimpan sebuah nilai dengan menggunakan = sedangkan yang kedua ini dia akan dapat merubah suatu nilai

```
File Edit Selection View Go Run Terminal Help
app.py - Desktop - Visual Studio Code

EXPLORER
OPEN EDITORS
  pertama.py python
  app.py python
DESKTOP
  python
    app.py
    pertama.py

python > app.py > ...
1 price = 100000
2 print(price)
3
4 price = 50000
5 print(price)
6
7

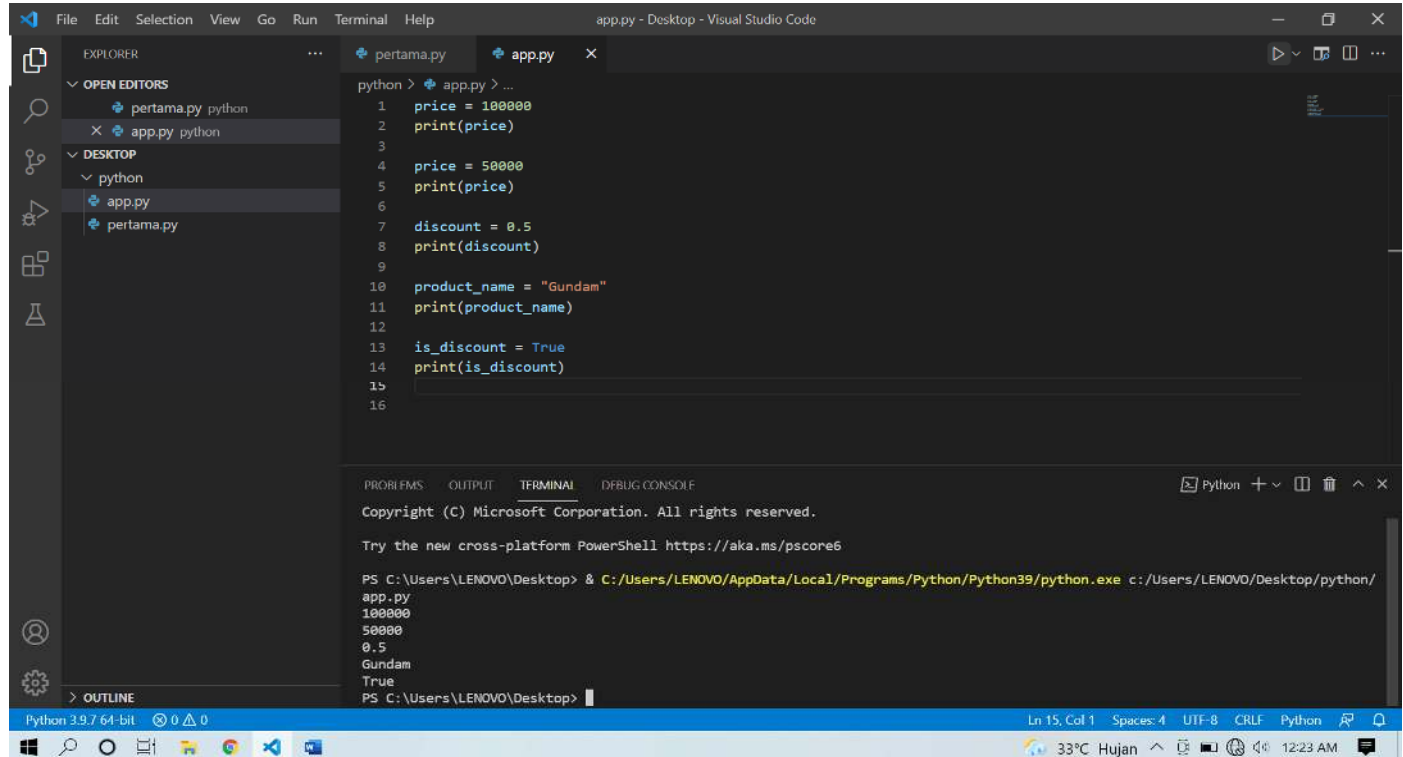
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python + - [ ] [X] [^] [v] [X]

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/app.py
100000
50000
PS C:\Users\LENOVO\Desktop>
```

- kita buat lagi variabel baru yaitu 0,5 yang berupa pecahan yaitu variabel float. Disini kita juga belajar 3 variabel yaitu integer, float dan boolean yang nilainya True atau False.



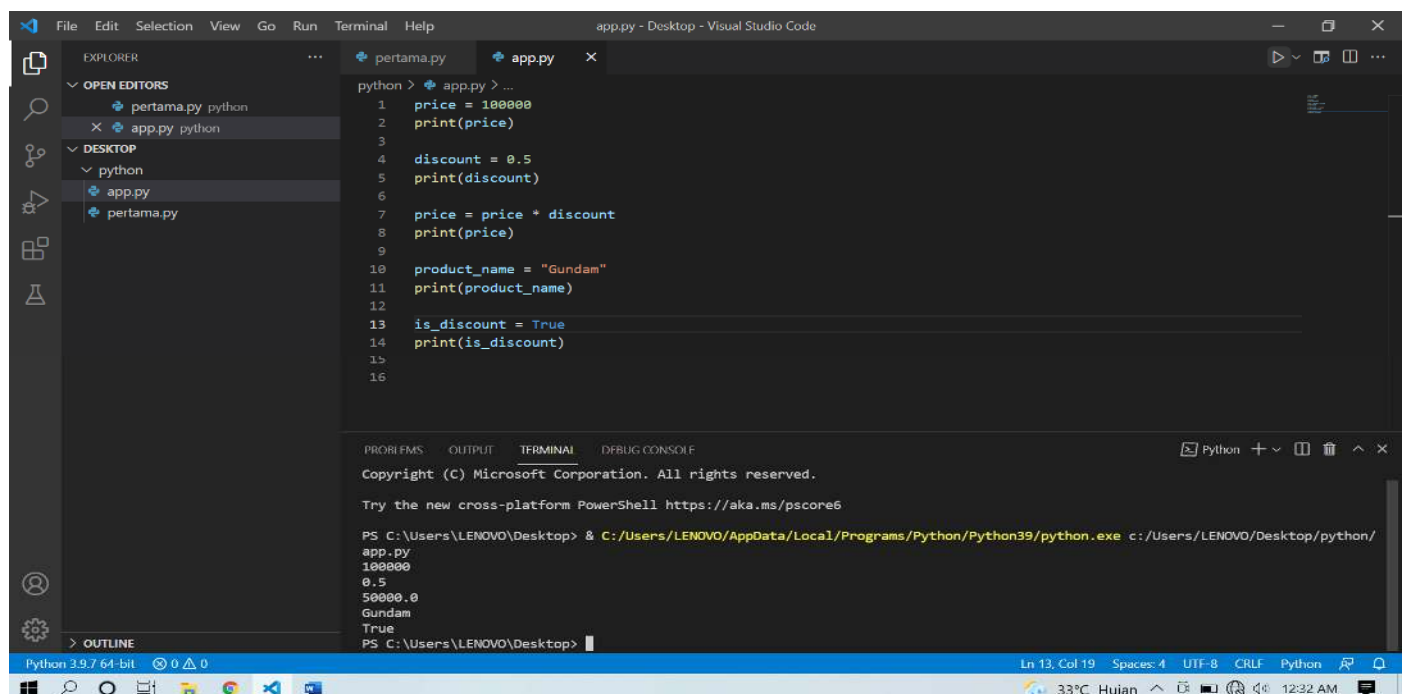
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The code in the editor is as follows:

```
python > app.py > ...
1 price = 100000
2 print(price)
3
4 price = 50000
5 print(price)
6
7 discount = 0.5
8 print(discount)
9
10 product_name = "Gundam"
11 print(product_name)
12
13 is_discount = True
14 print(is_discount)
15
16
```

The terminal output shows the execution results:

```
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/app.py
100000
50000
0.5
Gundam
True
PS C:\Users\LENOVO\Desktop>
```

- disini akan dicetak price yang baru akan dikali dengan diskon. Kenapa hasil yang dimunculkan 50, soalnya variabel integer dikali dengan tipe data float maka dia akan menghasilkan data float.



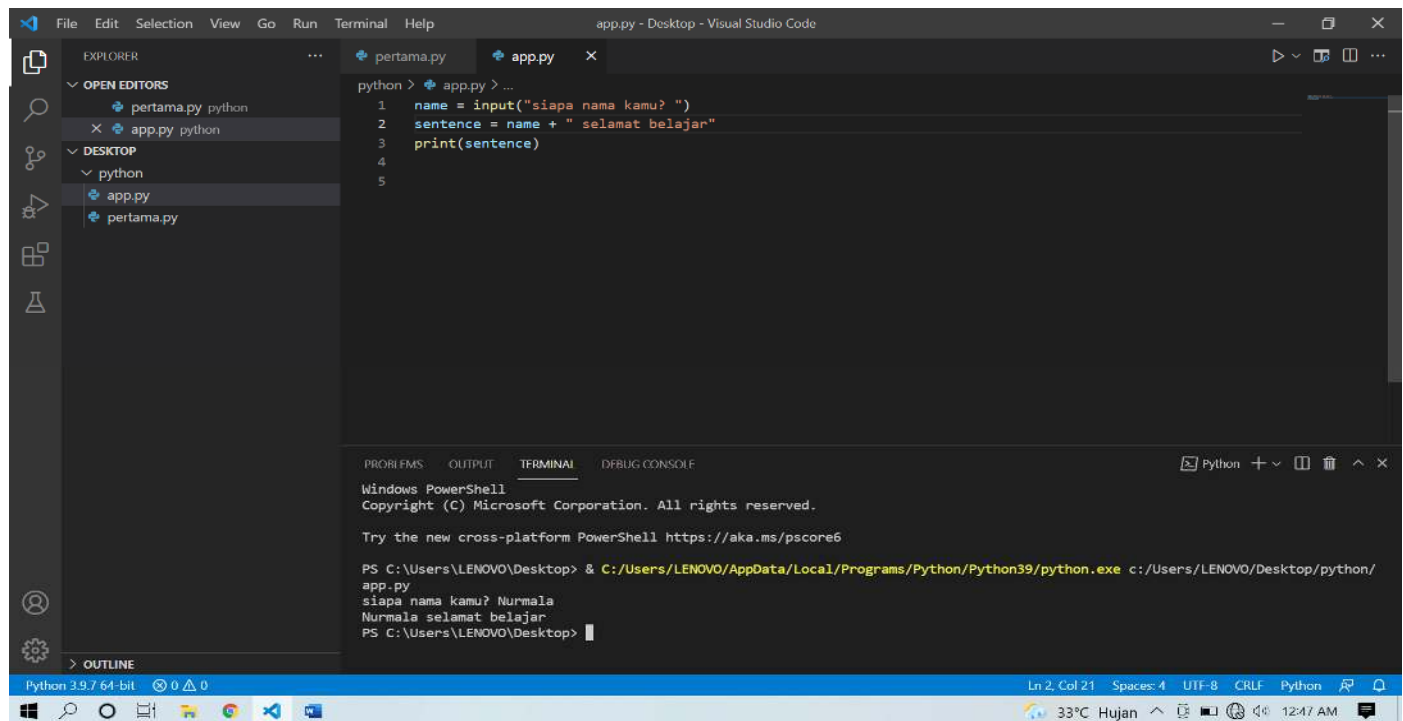
The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The code in the editor is as follows:

```
python > app.py > ...
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 = "Gundam"
11 print(product_name)
12
13 is_discount = True
14 print(is_discount)
15
16
```

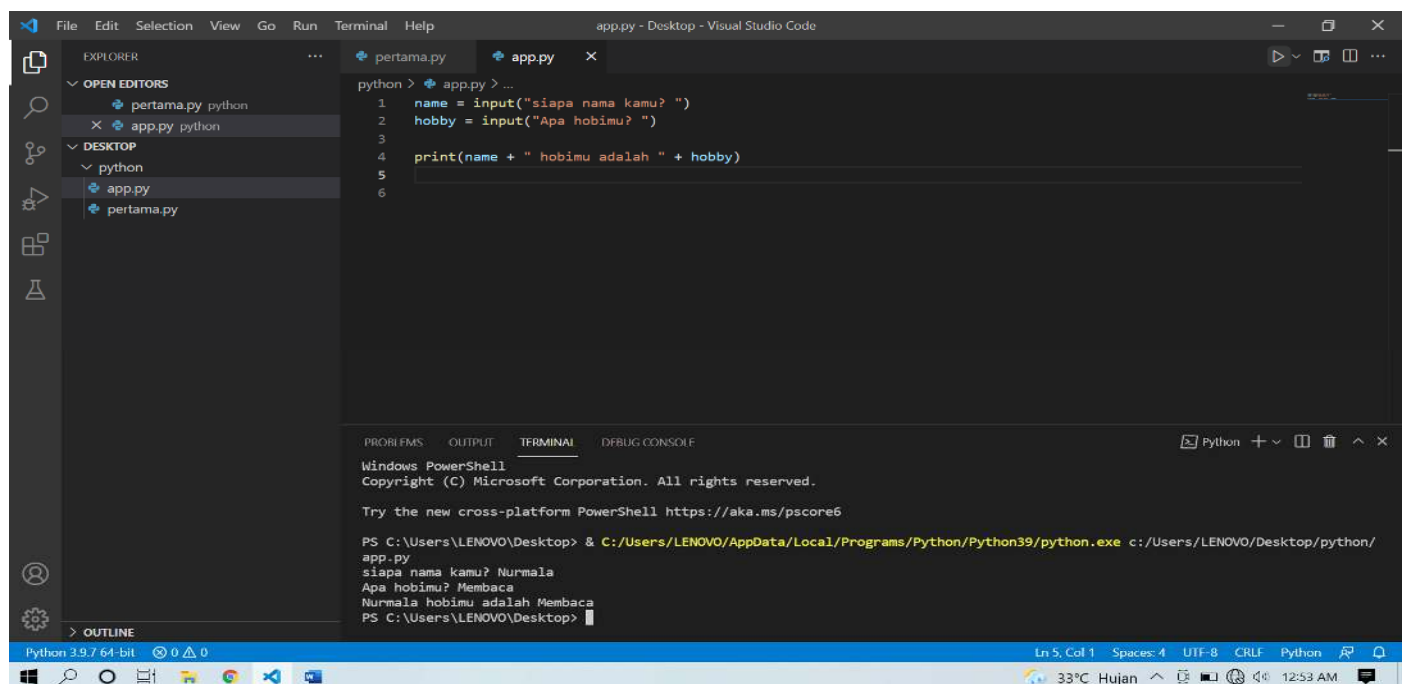
The terminal output shows the execution results:

```
PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/app.py
100000
0.5
50000.0
Gundam
True
PS C:\Users\LENOVO\Desktop>
```

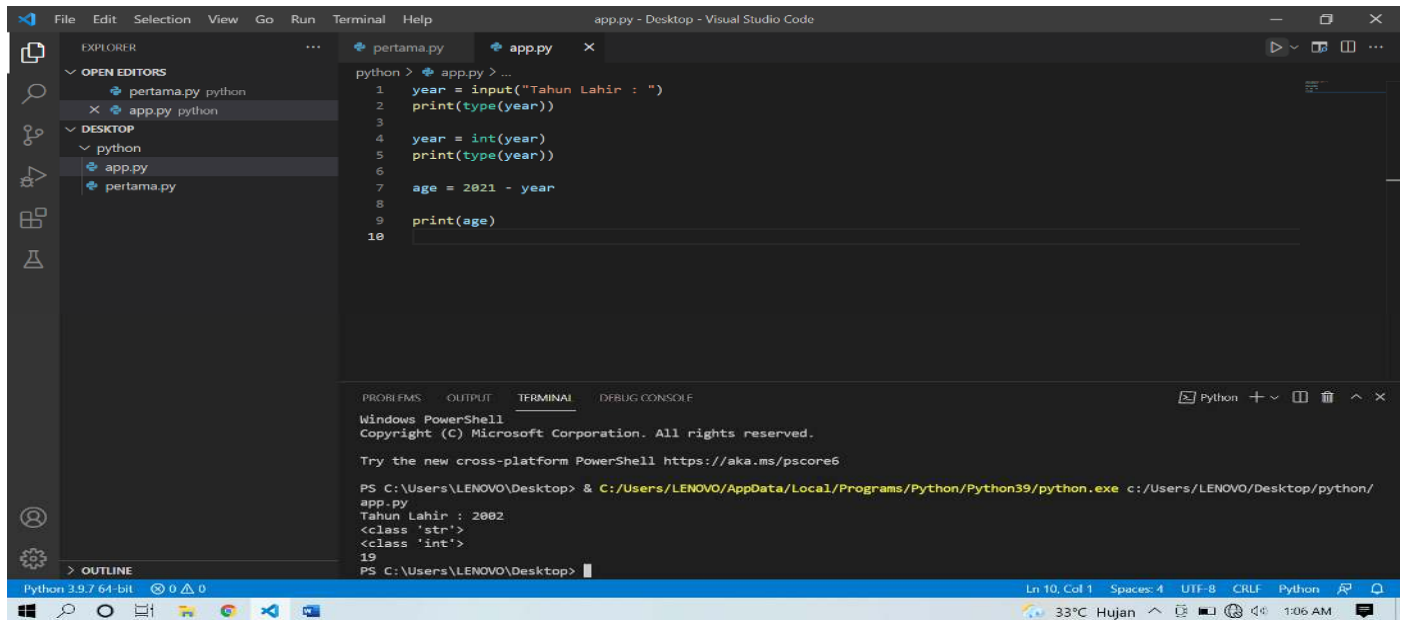
3. kita akan buat input yaitu berupa function bawaan dari python input parameternya yaitu string yang akan ditampilkan di terminal. Contohnya di bawah ini.



- disini juga menginput hobby , print bisa langsung masukan nama + apa hobbymu maka akan muncul nama dan hobby kamu



4. tahap konfersi yaitu mengubah suatu tipe data ke tipe data yang lain. Disini kita membuat sebuah input sebagai tempat user untuk masukan tahun lahir dan disimpan di variabel dengan nama tahun year. User akan memasukan tahun lahir dan program akan mengeluarkan umurnya



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows the file structure with `pertama.py` and `app.py` under the `python` folder. The main editor displays the following code:

```
python > app.py > ...
1 year = input("Tahun Lahir : ")
2 print(type(year))
3
4 year = int(year)
5 print(type(year))
6
7 age = 2021 - year
8
9 print(age)
10
```

The TERMINAL panel at the bottom shows the execution of the script in a Windows PowerShell environment. The output is as follows:

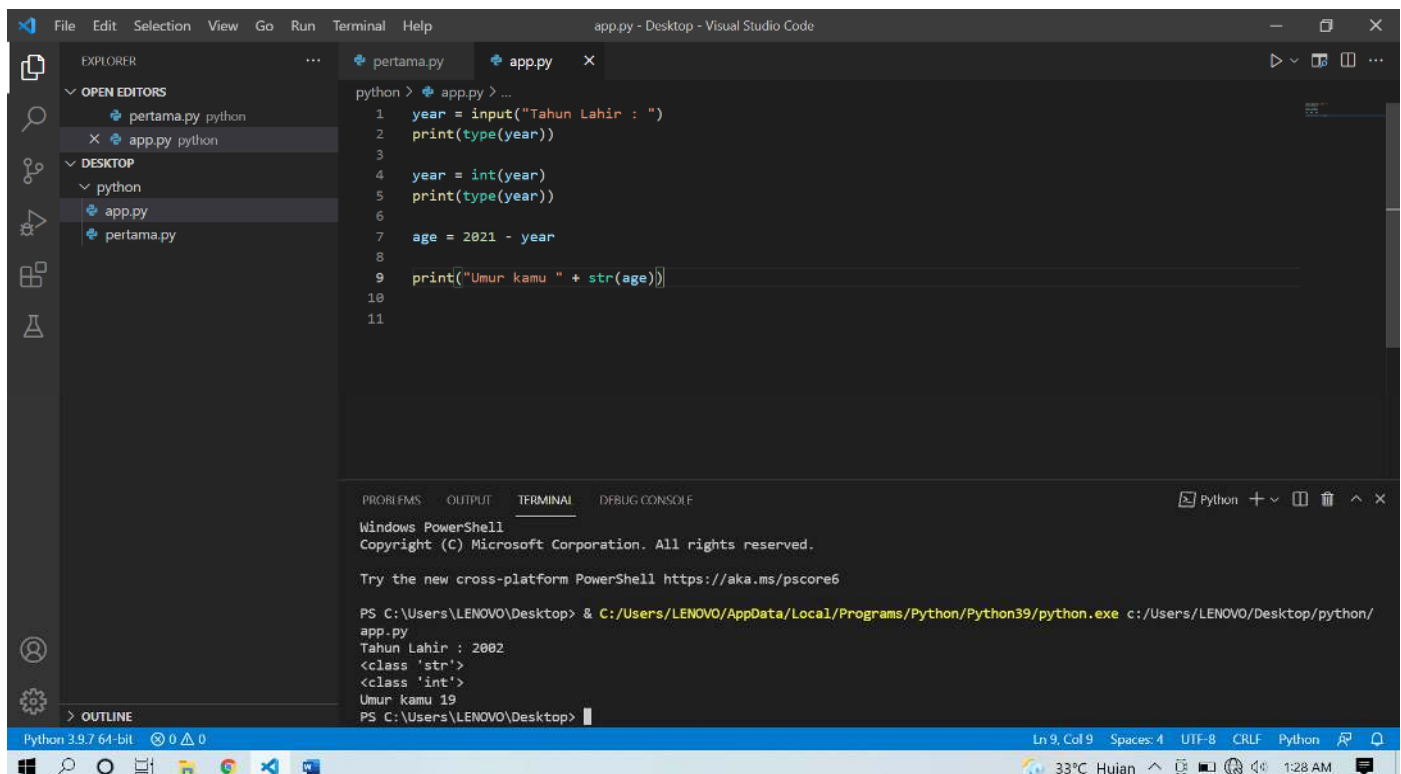
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/
app.py
Tahun Lahir : 2002
<class 'str'>
<class 'int'>
19
PS C:\Users\LENOVO\Desktop>
```

The status bar at the bottom indicates the file is at line 10, column 1, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows a temperature of 33°C, weather as Hujan, and the time as 1:06 AM.

- Disini kita akan mencetak umur kamu dengan string tulisan str yang dimana angka diubah menjadi string maka akan menghasilkan umur kamu adalah 19



The screenshot shows the Visual Studio Code interface with the same `app.py` file. The code has been updated to use string formatting for the output:

```
python > app.py > ...
1 year = input("Tahun Lahir : ")
2 print(type(year))
3
4 year = int(year)
5 print(type(year))
6
7 age = 2021 - year
8
9 print("Umur kamu " + str(age))
10
11
```

The TERMINAL panel shows the execution of the updated script. The output is as follows:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\LENOVO\Desktop> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python39/python.exe c:/Users/LENOVO/Desktop/python/
app.py
Tahun Lahir : 2002
<class 'str'>
<class 'int'>
Umur kamu 19
PS C:\Users\LENOVO\Desktop>
```

The status bar at the bottom indicates the file is at line 9, column 9, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows a temperature of 33°C, weather as Hujan, and the time as 1:28 AM.