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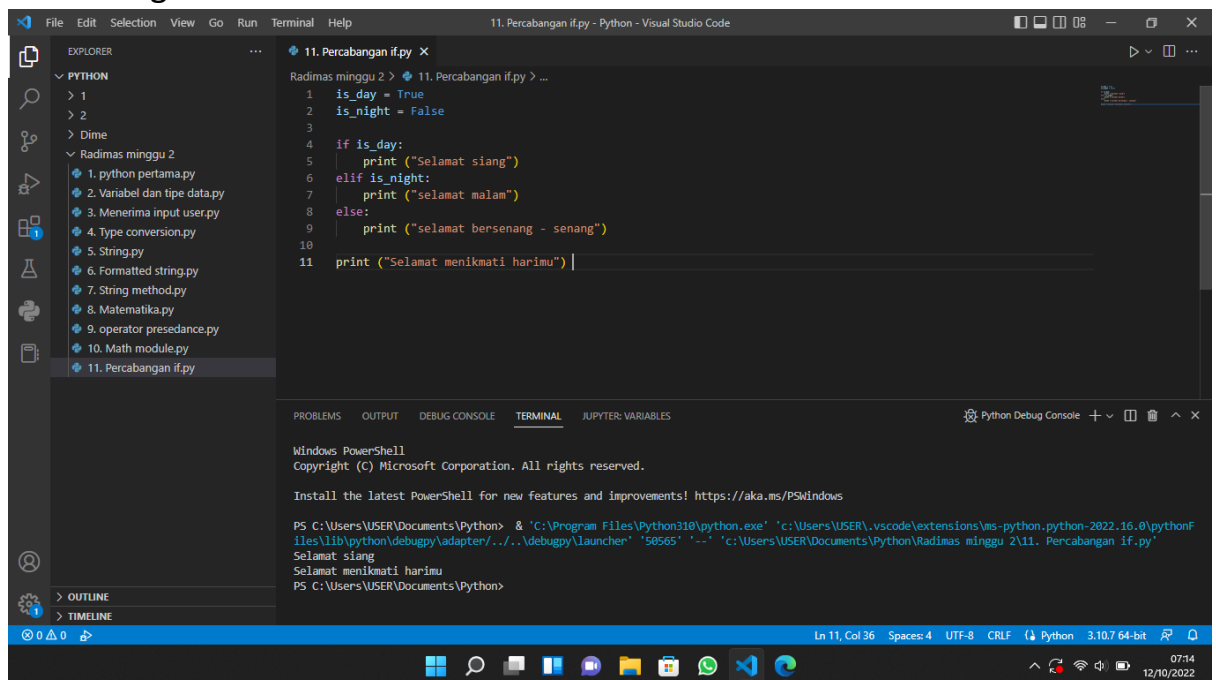
Tugas ke – 5

PY 3

Tema :

- Percabangan if
- Operator perbandingan
- Operator logika
- Perulangan while
- Game tebak angka
- Aplikasi kalkulator

1. Percabangan if



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists a project named 'Radimas minggu 2' containing several Python files, with '11. Percabangan if.py' selected. The main editor displays the code for '11. Percabangan if.py':

```
Radimas minggu 2 > 11. Percabangan if.py > ...
1  is_day = True
2  is_night = False
3
4  if is_day:
5      print ("Selamat siang")
6  elif is_night:
7      print ("selamat malam")
8  else:
9      print ("selamat bersenang - senang")
10
11 print ("Selamat menikmati harimu")
```

The bottom panel shows the 'TERMINAL' output, which includes Windows PowerShell information and the execution of the script:

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

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

PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonF
iles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '58565' '-.' 'c:\Users\USER\Documents\Python\Radimas minggu 2\11. Percabangan if.py'
Selamat siang
Selamat menikmati harimu
PS C:\Users\USER\Documents\Python>
```

The status bar at the bottom indicates the file is at line 11, column 36, using UTF-8 encoding with CRLF line endings, and is running Python 3.10.7 64-bit.

The screenshot shows the Visual Studio Code interface with a file named '11. Percabangan if.py'. The code in the editor is as follows:

```
1 is_day = False
2 is_night = False
3
4 if is_day:
5     print ("Selamat siang")
6 elif is_night:
7     print ("selamat malam")
8 else:
9     print ("selamat bersenang - senang")
10
11 print ("Selamat menikmati harimu")
```

The terminal at the bottom shows the command prompt running the script, which outputs:

```
PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '58565' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\11. Percabangan if.py'
Selamat siang
Selamat menikmati harimu
PS C:\Users\USER\Documents\Python> c; cd 'c:\Users\USER\Documents\Python'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '58577' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\11. Percabangan if.py'
selamat bersenang - senang
Selamat menikmati harimu
PS C:\Users\USER\Documents\Python>
```

2. Operator perbandingan

The screenshot shows the Visual Studio Code interface with a file named '12. Operator perbandingan.py'. The code in the editor is as follows:

```
1 result = 11 < 6
2 print (result)
3
4 result = 11 > 6
5 print (result)
6
7 result = 11 <= 6
8 print (result)
9
10 result = 11 >= 6
11 print (result)
12
13 result = 11 != 6
14 print (result)
15
16 result = 11 == 6
17 print (result)
```

The terminal at the bottom shows the command prompt running the script, which outputs the results of the comparison operations:

```
PS C:\Users\USER\Documents\Python> & 'C:\Program Files\Python310\python.exe' 'c:\Users\USER\.vscode\extensions\ms-python.python-2022.16.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '58696' '--' 'c:\Users\USER\Documents\Python\Radimas minggu 2\12. Operator perbandingan.py'
False
True
False
True
True
False
False
PS C:\Users\USER\Documents\Python>
```

The screenshot shows the Visual Studio Code interface with a file explorer on the left and a code editor in the center. The file explorer shows a project named 'Radimas minggu 2' with several Python files. The code editor displays a file named '12. Operator perbandingan.py' with the following code:

```
Radimas minggu 2 > 12. Operator perbandingan.py > ...
1 # Operator perbandingan dengan if statement
2
3 grade = 7
4
5 if grade >= 10:
6     print ("Nilai kamu A")
7 elif grade >= 9:
8     print ("Nilai kamu B")
9 elif grade >= 8:
10    print ("Nilai kamu C")
11 else :
12    print ("Belajar lebih giat lagi!")
```

The terminal at the bottom shows the execution of the script, displaying the output 'Nilai kamu C' and 'Belajar lebih giat lagi!'.

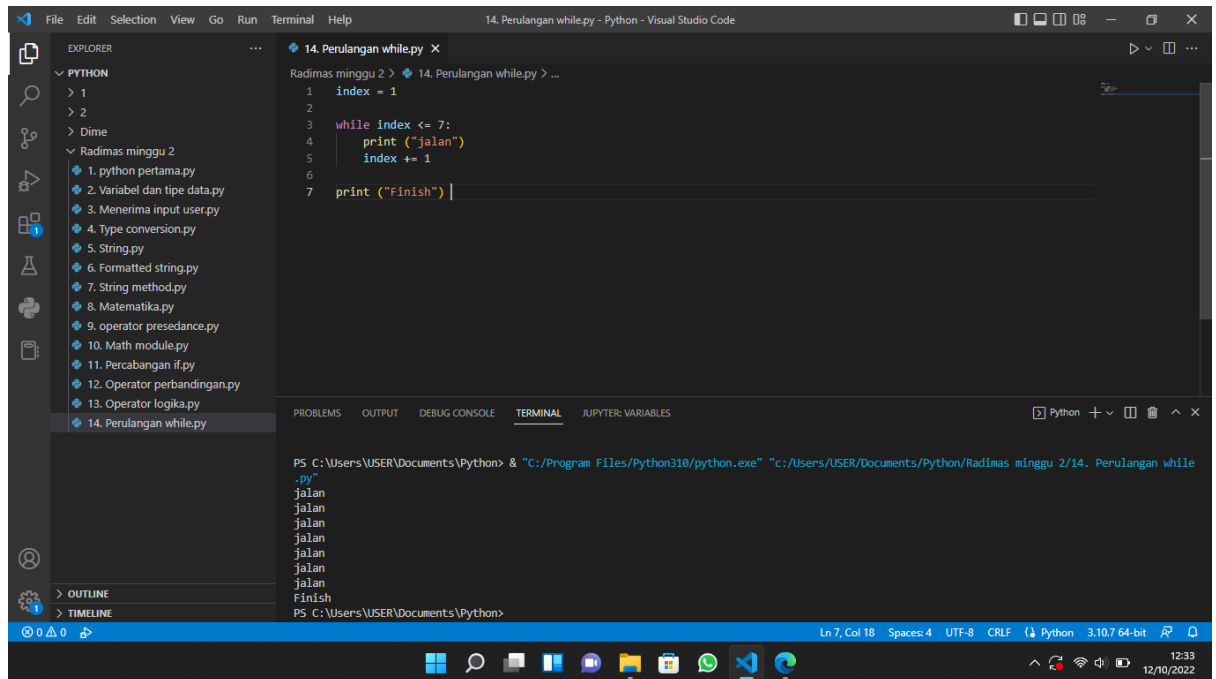
3. Operator logika

The screenshot shows the Visual Studio Code interface with a file explorer on the left and a code editor in the center. The file explorer shows a project named 'Radimas minggu 2' with several Python files. The code editor displays a file named '13. Operator logika.py' with the following code:

```
Radimas minggu 2 > 13. Operator logika.py > ...
1 name = "Radimas Audisyah Rahmana"
2
3 if len(name) > 23 :
4     print ("Selamat Datang")
5 else :
6     print ("Nama terlalu pendek")
```

The terminal at the bottom shows the execution of the script, displaying the output 'Nama terlalu pendek'.

4. Perulangan while

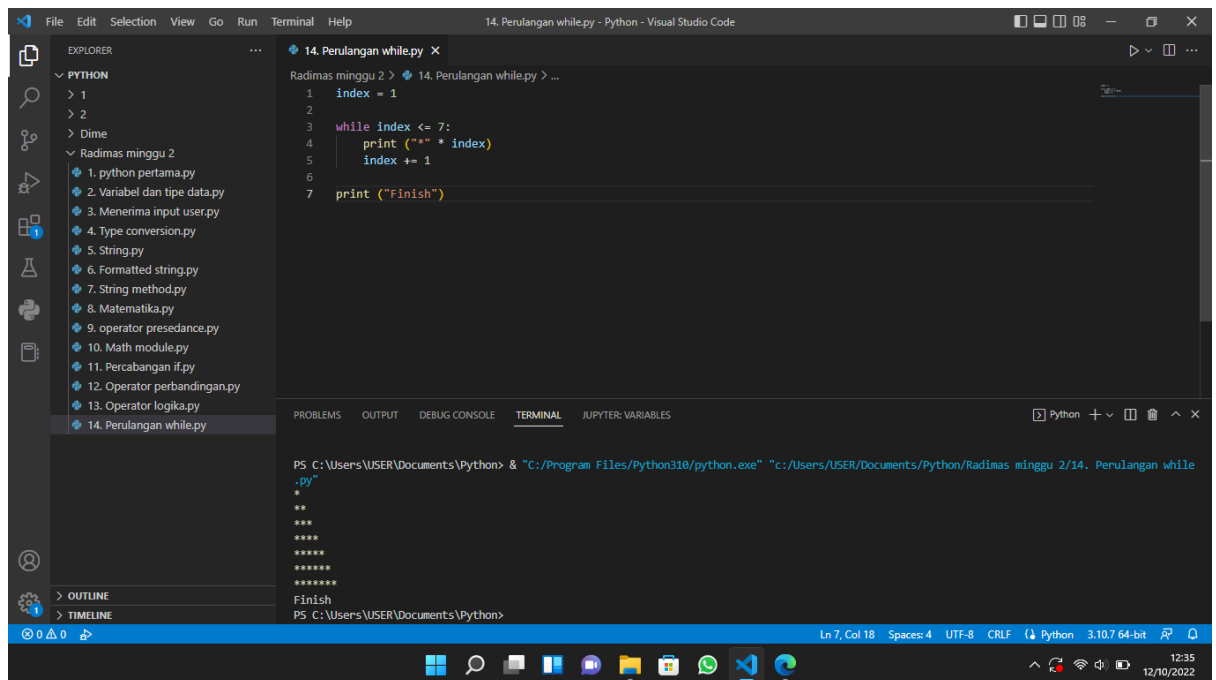


The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'Radimas minggu 2' with various Python files. The main editor displays a file named '14. Perulangan while.py' with the following code:

```
1 index = 1
2
3 while index <= 7:
4     print ("jalan")
5     index += 1
6
7 print ("Finish")
```

The bottom terminal window shows the command prompt output:

```
PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Radimas minggu 2/14. Perulangan while .py"
jalan
jalan
jalan
jalan
jalan
jalan
jalan
Finish
PS C:\Users\USER\Documents\Python>
```



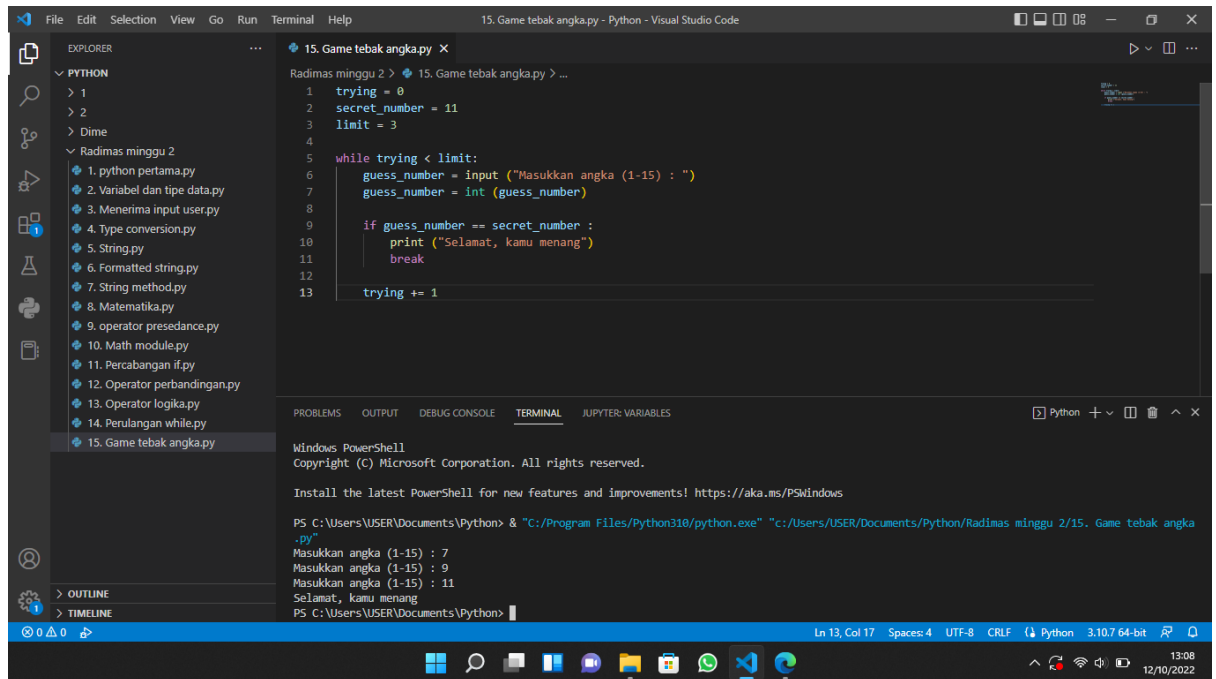
The screenshot shows the Visual Studio Code interface with the same file explorer. The main editor displays the same file '14. Perulangan while.py' but with modified code:

```
1 index = 1
2
3 while index <= 7:
4     print ("*" * index)
5     index += 1
6
7 print ("Finish")
```

The bottom terminal window shows the command prompt output:

```
PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Radimas minggu 2/14. Perulangan while .py"
*
**
***
****
*****
*****
*****
Finish
PS C:\Users\USER\Documents\Python>
```

5. Game tebak angka



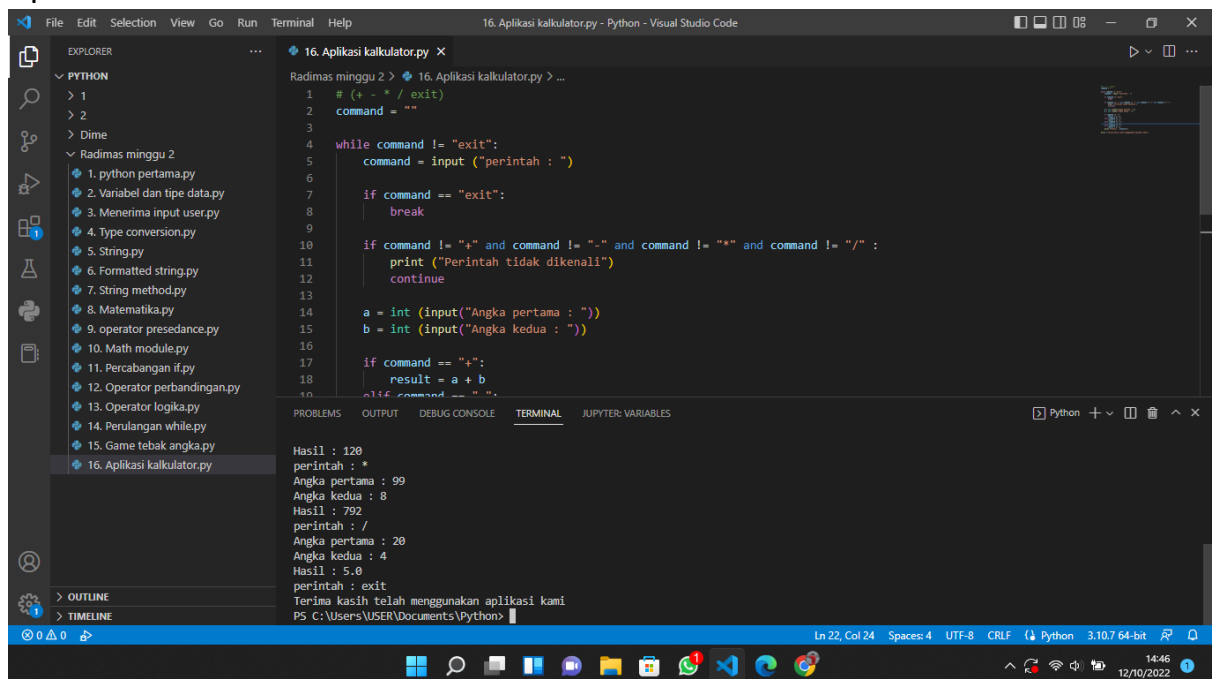
The screenshot shows the Visual Studio Code interface with a Python file named "15. Game tebak angka.py". The code is as follows:

```
1  trying = 0
2  secret_number = 11
3  limit = 3
4
5  while trying < limit:
6      guess_number = input ("Masukkan angka (1-15) : ")
7      guess_number = int (guess_number)
8
9      if guess_number == secret_number :
10         print ("Selamat, kamu menang")
11         break
12
13     trying += 1
```

The terminal output shows the execution of the script:

```
PS C:\Users\USER\Documents\Python> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python/Radimas minggu 2/15. Game tebak angka.py"
Masukkan angka (1-15) : 7
Masukkan angka (1-15) : 9
Masukkan angka (1-15) : 11
Selamat, kamu menang
PS C:\Users\USER\Documents\Python>
```

6. Aplikasi kalkulator



The screenshot shows the Visual Studio Code interface with a Python file named "16. Aplikasi kalkulator.py". The code is as follows:

```
1  # (+ - * / exit)
2  command = ""
3
4  while command != "exit":
5      command = input ("perintah : ")
6
7      if command == "exit":
8          break
9
10     if command != "+" and command != "-" and command != "*" and command != "/" :
11         print ("Perintah tidak dikenali")
12         continue
13
14     a = int (input("Angka pertama : "))
15     b = int (input("Angka kedua : "))
16
17     if command == "+":
18         result = a + b
19     elif command == "-":
20         result = a - b
21     elif command == "*":
22         result = a * b
23     elif command == "/":
24         result = a / b
25
26     print ("Hasil : ", result)
```

The terminal output shows the execution of the script:

```
PS C:\Users\USER\Documents\Python>
Hasil : 120
perintah : *
Angka pertama : 99
Angka kedua : 8
Hasil : 792
perintah : /
Angka pertama : 20
Angka kedua : 4
Hasil : 5.0
perintah : exit
Terima kasih telah menggunakan aplikasi kami
PS C:\Users\USER\Documents\Python>
```