

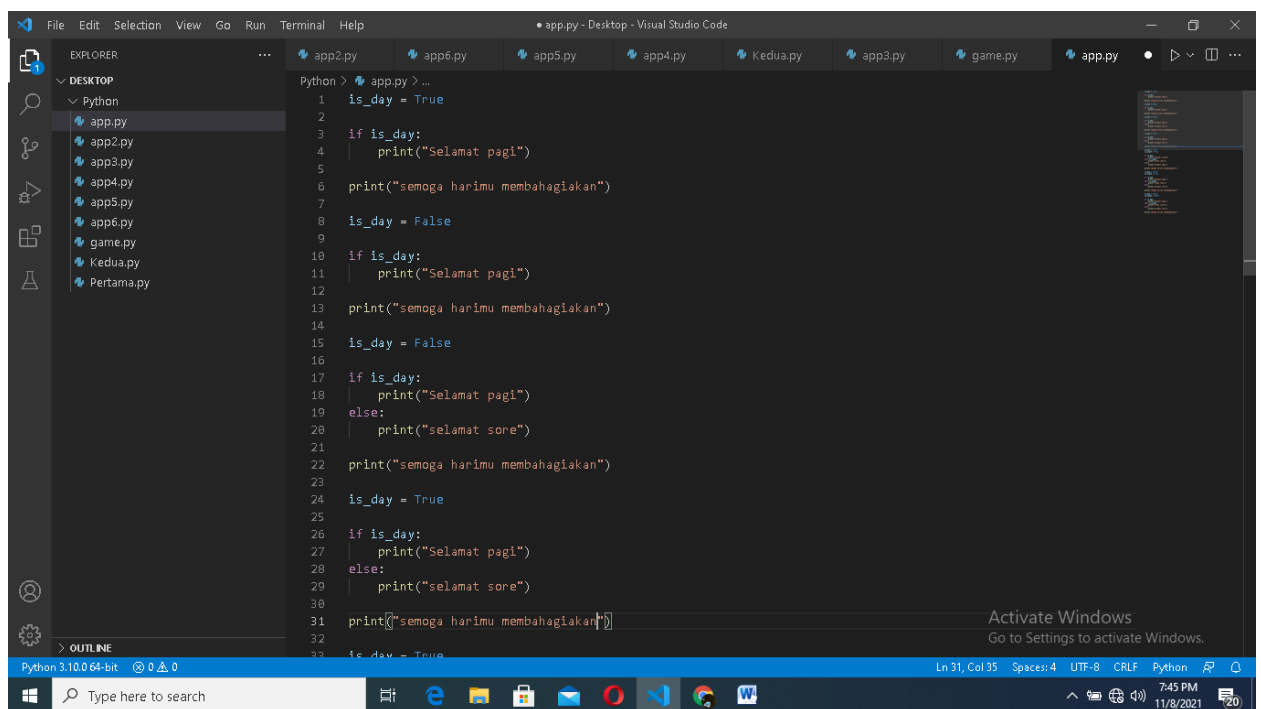
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NIM : 20.01.013.002

TUGAS : PYTHON 3

MK : KECERDASAN BUATAN

1. PERCABANGAN IF



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  is_day = True
2
3  if is_day:
4      print("Selamat pagi")
5
6  print("semoga harimu membahagiakan")
7
8  is_day = False
9
10 if is_day:
11     print("Selamat pagi")
12
13 print("semoga harimu membahagiakan")
14
15 is_day = False
16
17 if is_day:
18     print("Selamat pagi")
19 else:
20     print("selamat sore")
21
22 print("semoga harimu membahagiakan")
23
24 is_day = True
25
26 if is_day:
27     print("Selamat pagi")
28 else:
29     print("selamat sore")
30
31 print("semoga harimu membahagiakan")
32
33 is_day = True
```

The Explorer sidebar on the left shows a file tree with the following files: app.py, app2.py, app3.py, app4.py, app5.py, app6.py, game.py, Kedua.py, and Pertama.py. The status bar at the bottom indicates the file is at line 31, column 35, using UTF-8 encoding with CRLF line endings. The Windows taskbar at the very bottom shows the time as 7:45 PM on 11/8/2021.

```
Python > app.py > ...
36 if is_day:
37     print("Selamat siang")
38 elif is_night:
39     print("tetap rajin")
40 else:
41     print("selamat pagi")
42
43 print("semoga harimu membahagiakan")
44
45 is_day = False
46 is_night = True
47
48 if is_day:
49     print("Selamat pagi")
50 elif is_night:
51     print("tetap rajin")
52 else:
53     print("selamat sore")
54
55 print("semoga harimu membahagiakan")
56
57 is_day = False
58 is_night = False
59
60 if is_day:
61     print("Selamat pagi")
62 elif is_night:
63     print("tetap rajin")
64 else:
65     print("selamat sore")
66
67 print("semoga harimu membahagiakan")
68
```

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

PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app.py
Selamat pagi
semoga harimu membahagiakan
semoga harimu membahagiakan
selamat sore
semoga harimu membahagiakan
Selamat pagi
semoga harimu membahagiakan
Selamat siang
semoga harimu membahagiakan
tetap rajin
semoga harimu membahagiakan
selamat sore
semoga harimu membahagiakan
PS C:\Users\USER\Desktop>
```

2. OPERATOR PERBANDINGAN

```
Python > app2.py > ...
1 result = 10 > 5
2 print(result)
3
4 result = 10 < 5
5 print(result)
6
7 result = 10 >= 5
8 print(result)
9
10 result = 10 <= 5
11 print(result)
12
13 result = 10 == 5
14 print(result)
15
16 result = 10 != 5
17 print(result)
18
19 grade = 10
20
21 if grade >= 9:
22     print("nilai yang kamu dapat addalah A")
23 else:
24     print("nilai yang kamu dapat selain dari nilai A")
25
26 grade = 8.5
27
28 if grade >= 9:
29     print("nilai yang kamu dapat addalah A")
30 elif grade >= 8:
31     print("nilai yang kamu dapat adalah B")
32 elif grade >= 7:
33     print("nilai yang kamu dapat adalah C")
34
```

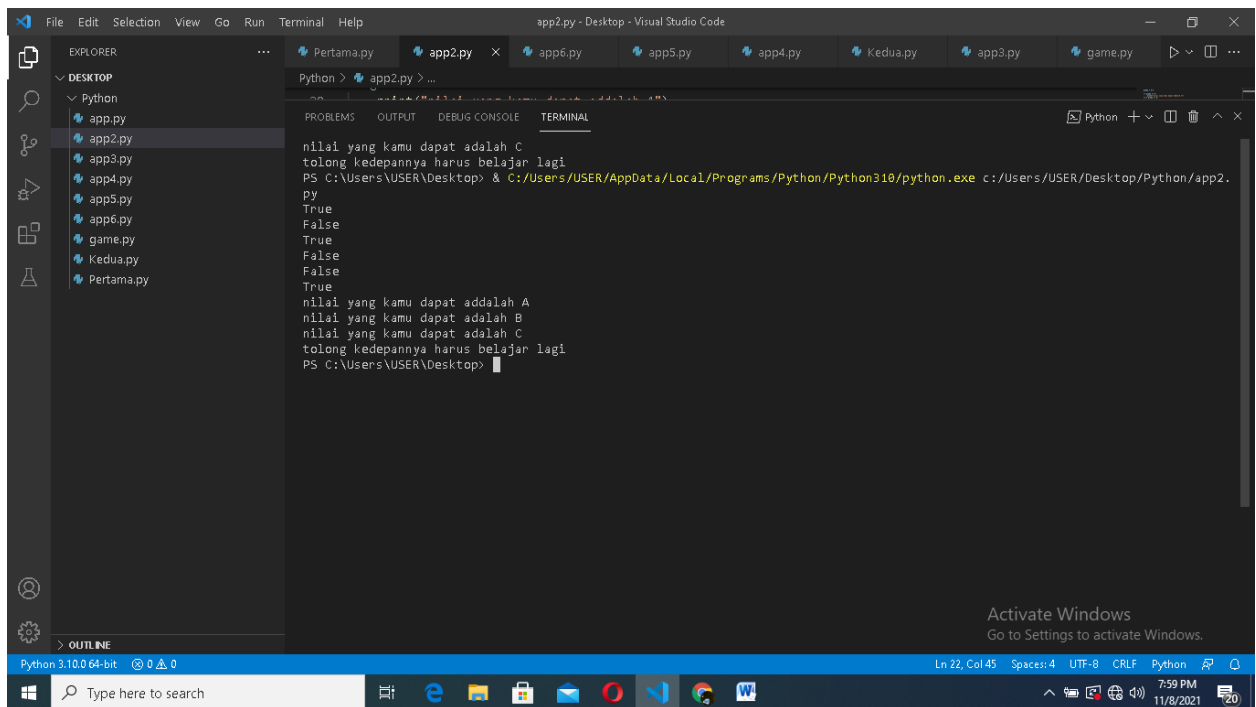
Activate Windows
Go to Settings to activate Windows.

Python 3.10.0 64-bit @ 0 0 0 Ln 18, Col 1 Spaces: 4 UTF-8 CRLF Python

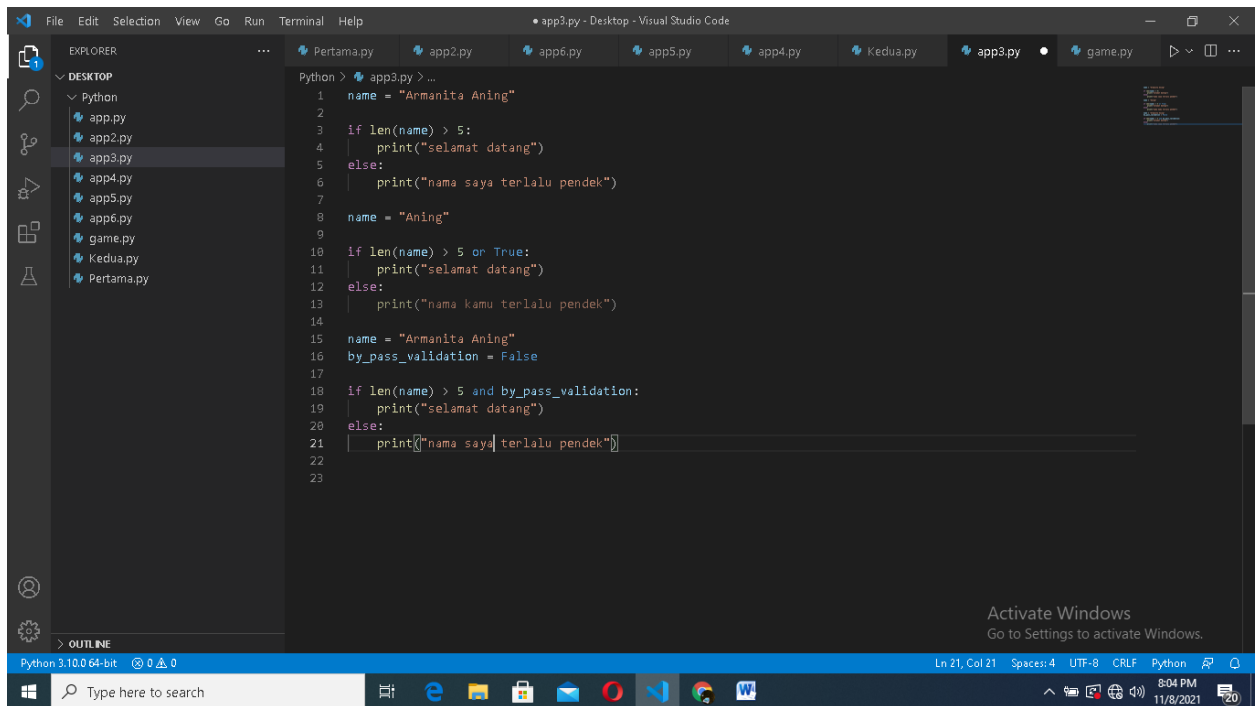
```
Python > app2.py > ...
17 print(result)
18
19 grade = 10
20
21 if grade >= 9:
22     print("nilai yang kamu dapat addalah A")
23 else:
24     print("nilai yang kamu dapat selain dari nilai A")
25
26 grade = 8.5
27
28 if grade >= 9:
29     print("nilai yang kamu dapat addalah A")
30 elif grade >= 8:
31     print("nilai yang kamu dapat adalah B")
32 elif grade >= 7:
33     print("nilai yang kamu dapat adalah C")
34 else:
35     print("tolong kedepannya harus belajar lagi")
36
37 grade = 7.5
38
39 if grade >= 9:
40     print("nilai yang kamu dapat addalah A")
41 elif grade >= 8:
42     print("nilai yang kamu dapat adalah B")
43 elif grade >= 7:
44     print("nilai yang kamu dapat adalah C")
45 else:
46     print("tolong kedepannya harus belajar lagi")
47
48 grade = 5
49
```

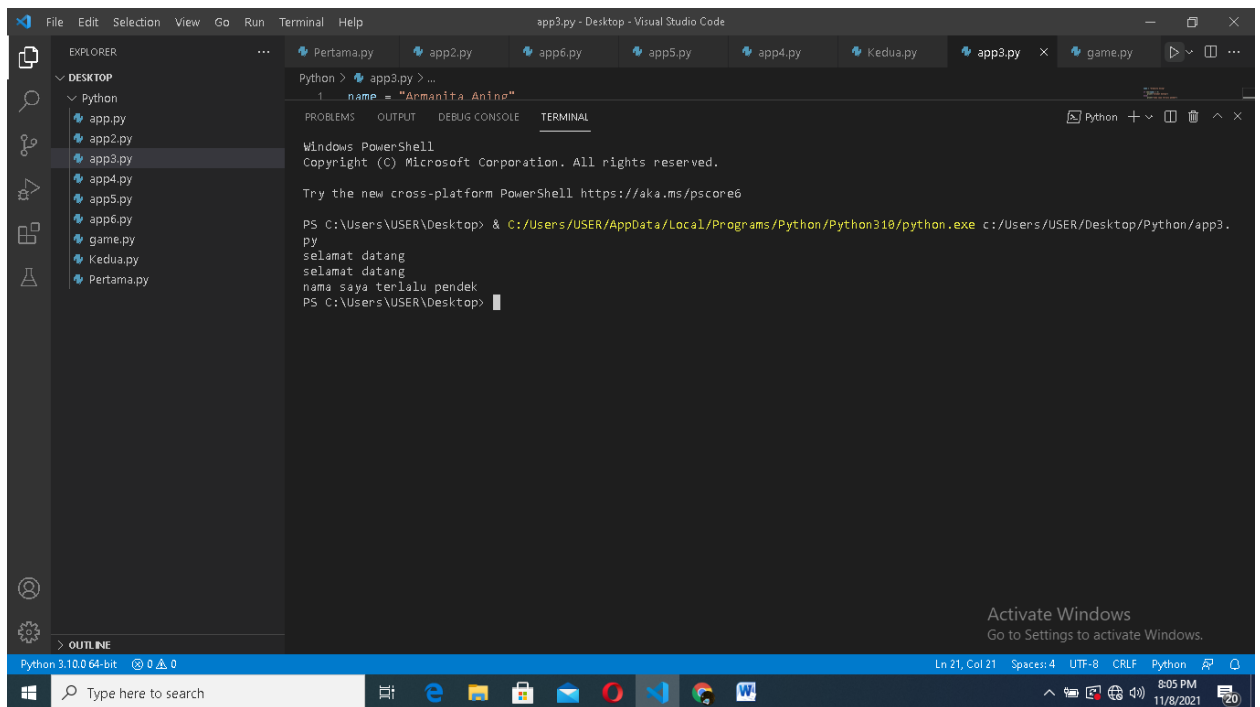
Activate Windows
Go to Settings to activate Windows.

Python 3.10.0 64-bit @ 0 0 0 Ln 21, Col 1 Spaces: 4 UTF-8 CRLF Python



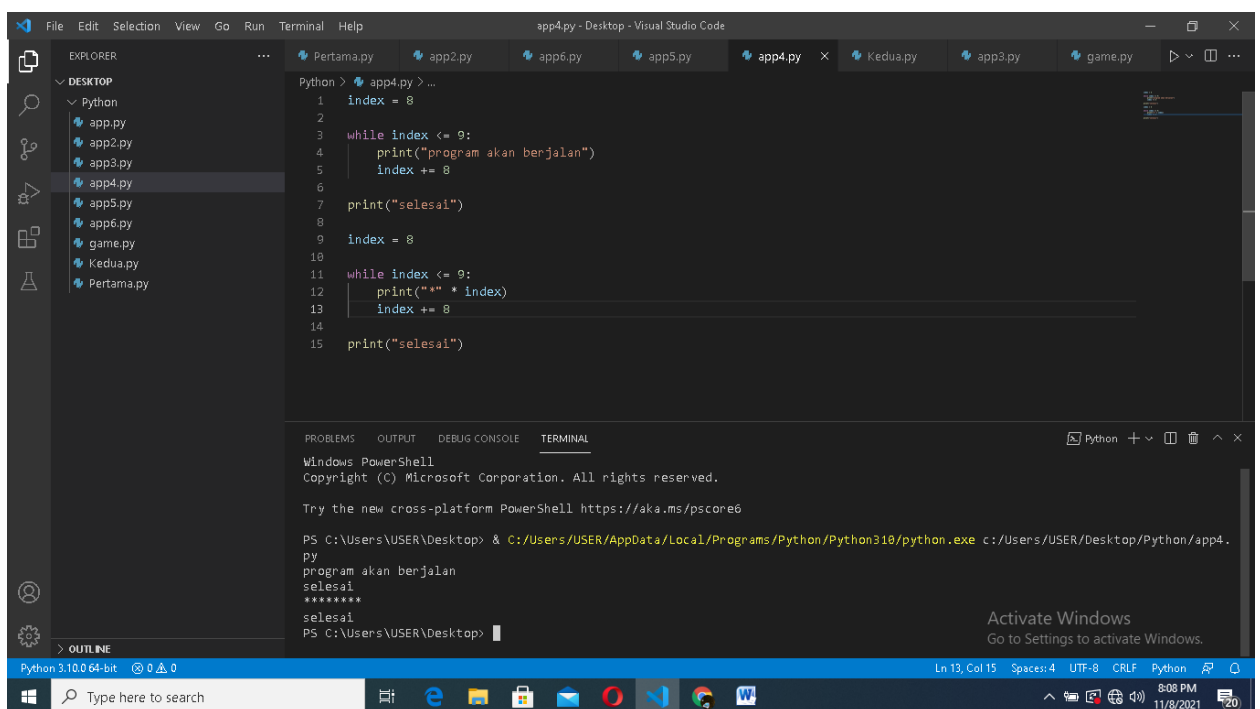
3. OPERATOR LOGIKA





The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a directory structure under 'DESKTOP' containing Python files: app.py, app2.py, app3.py, app4.py, app5.py, app6.py, game.py, Kedua.py, and Pertama.py. The main editor displays the content of app3.py, which contains a single line of code: `name = "Armanita Anine"`. Below the editor, the terminal window shows the execution of the script using the command `python.exe c:/Users/USER/Desktop/Python/app3.py`. The output of the script is displayed in the terminal: `selamat datang` and `nama saya terlalu pendek`. The status bar at the bottom indicates the Python version as 3.10.0 64-bit and the current file is app3.py.

4. PERULANGAN WHILE

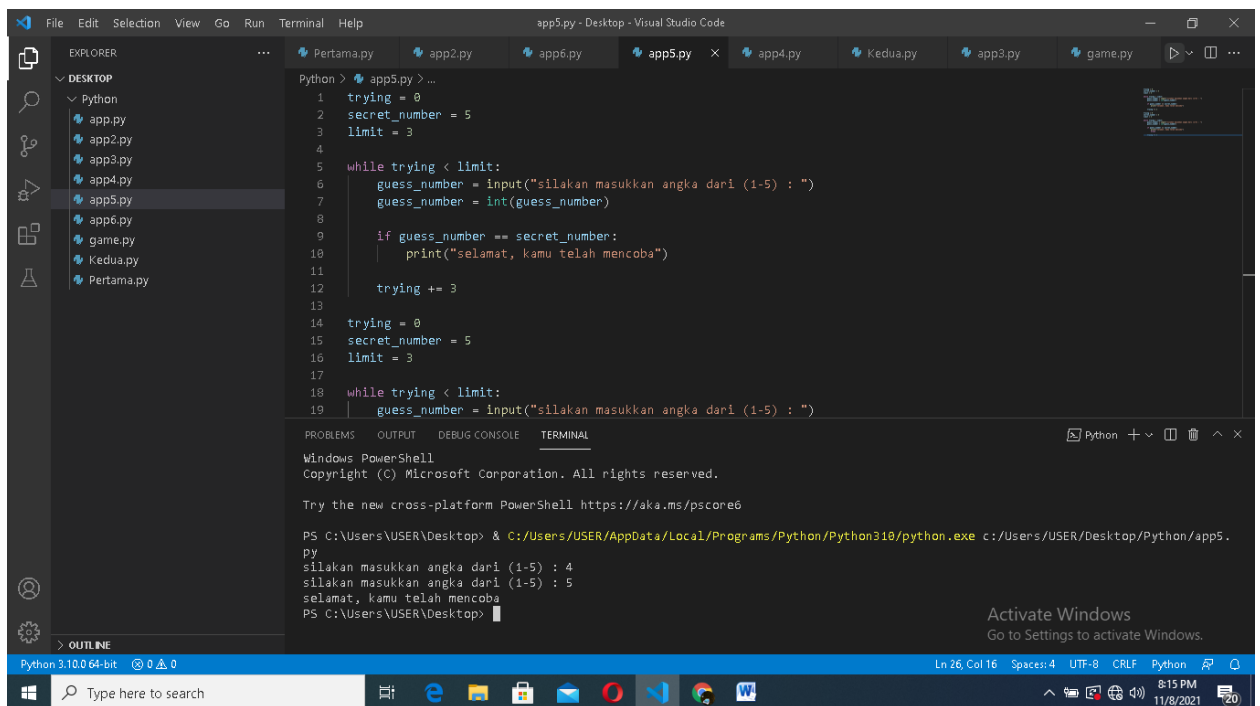
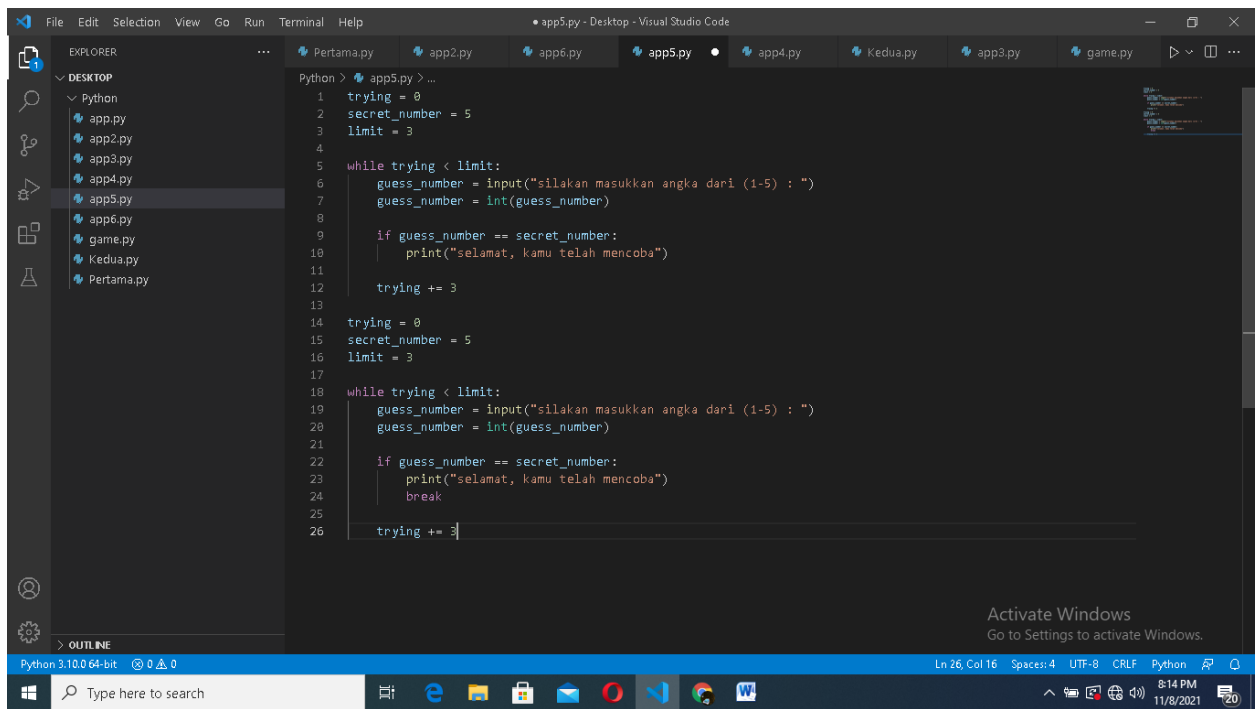


The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a directory structure under 'DESKTOP' containing Python files: app.py, app2.py, app3.py, app4.py, app5.py, app6.py, game.py, Kedua.py, and Pertama.py. The main editor displays the content of app4.py, which contains a while loop that prints 'program akan berjalan' and 'selesai' multiple times. The code is as follows:

```
1 index = 8
2
3 while index <= 9:
4     print("program akan berjalan")
5     index += 8
6
7 print("selesai")
8
9 index = 8
10
11 while index <= 9:
12     print("*" * index)
13     index += 8
14
15 print("selesai")
```

 Below the editor, the terminal window shows the execution of the script using the command `python.exe c:/Users/USER/Desktop/Python/app4.py`. The output of the script is displayed in the terminal: `program akan berjalan`, `selesai`, and a series of asterisks (`*****`) followed by `selesai`. The status bar at the bottom indicates the Python version as 3.10.0 64-bit and the current file is app4.py.

5. GAME TEBAK ANGKA



6. APLIKASI KALKULATOR

```
Python > app6.py > ...
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(f"Hasil : {result}")
27
28    print("Terima kasih sudah menggunakan aplikasi kami")
29
```

```
Python > app6.py > ...
1 # (+ - * / exit)

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PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app6.py
perintah : 5
perintah tidak dikenali
perintah : 4
perintah tidak dikenali
perintah : 3
perintah tidak dikenali
perintah : 2
perintah tidak dikenali
perintah : exit
angka pertama: 4
angka kedua: 2
Hasil : {result}
Terima kasih sudah menggunakan aplikasi kami
PS C:\Users\USER\Desktop>
```

