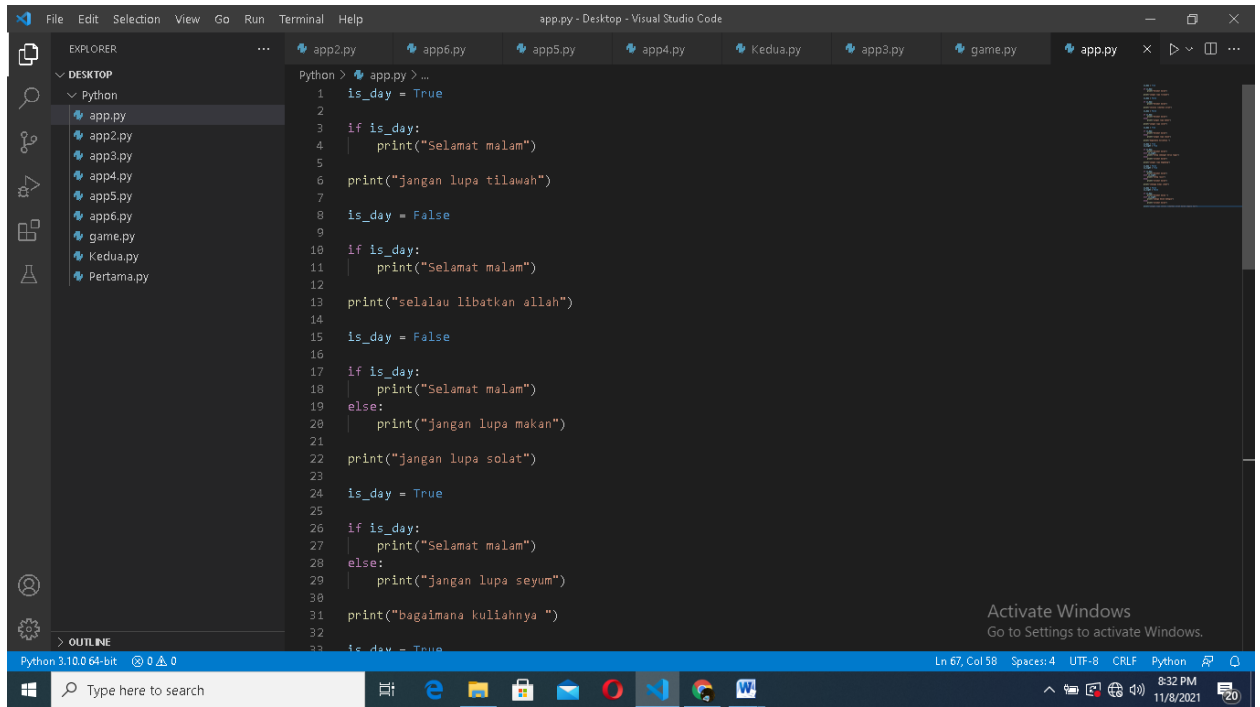


NAMA : NURUL MUFLIHA PUASA

KELAS : A

NIM : 20.01.013.014

## 1. PERCABANGAN IF



The screenshot shows the Visual Studio Code interface with a Python file named `app.py` open. The Explorer sidebar on the left shows a file structure with `DESKTOP` and `Python` folders, containing files like `app.py`, `app2.py`, `app3.py`, `app4.py`, `app5.py`, `app6.py`, `game.py`, `Kedua.py`, and `Pertama.py`. The main editor displays the following Python code:

```
Python > app.py > ...
1  is_day = True
2
3  if is_day:
4      print("Selamat malam")
5
6  print("jangan lupa tilawah")
7
8  is_day = False
9
10 if is_day:
11     print("Selamat malam")
12
13 print("selalu libatkan allah")
14
15 is_day = False
16
17 if is_day:
18     print("Selamat malam")
19 else:
20     print("jangan lupa makan")
21
22 print("jangan lupa sholat")
23
24 is_day = True
25
26 if is_day:
27     print("Selamat malam")
28 else:
29     print("jangan lupa seyum")
30
31 print("bagaimana kulliahnya ")
32
33 is_day = True
```

The status bar at the bottom indicates the file is at line 67, column 58, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows the date and time as 8:32 PM on 11/8/2021.

```
Python > app.py > ...
32
33 is_day = True
34 is_night = True
35
36 if is_day:
37     print("Selamat malam")
38 elif is_night:
39     print("tetap semangat kerja tugas")
40 else:
41     print("selamat malam")
42
43 print("jangan lupa begadang")
44
45 is_day = False
46 is_night = True
47
48 if is_day:
49     print("Selamat malam")
50 elif is_night:
51     print("tetap rajin")
52 else:
53     print("selamat malam")
54
55 print("semoaga mimpi indah")
56
57 is_day = False
58 is_night = False
59
60 if is_day:
61     print("Selamat malam ")
62 elif is_night:
63     print("semoga besok bahagia")
64 else:
```

Activate Windows  
Go to Settings to activate Windows.

Python 3.10.0 64-bit @ 0.0.0 Ln 67, Col 58 Spaces: 4 UTF-8 CRLF Python

```
Python > app.py > ...
54
55 print("semoaga mimpi indah")
56
57 is_day = False
58 is_night = False
59
60 if is_day:
61     print("Selamat malam ")
62 elif is_night:
63     print("semoga besok bahagia")
64 else:
65     print("selamat malam")
66
67 print("jangan lupa selalu libatkan allah dalam segala hal")
68
```

Activate Windows  
Go to Settings to activate Windows.

Python 3.10.0 64-bit @ 0.0.0 Ln 67, Col 58 Spaces: 4 UTF-8 CRLF Python

## 2. OPERATOR PERBANDINGAN

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

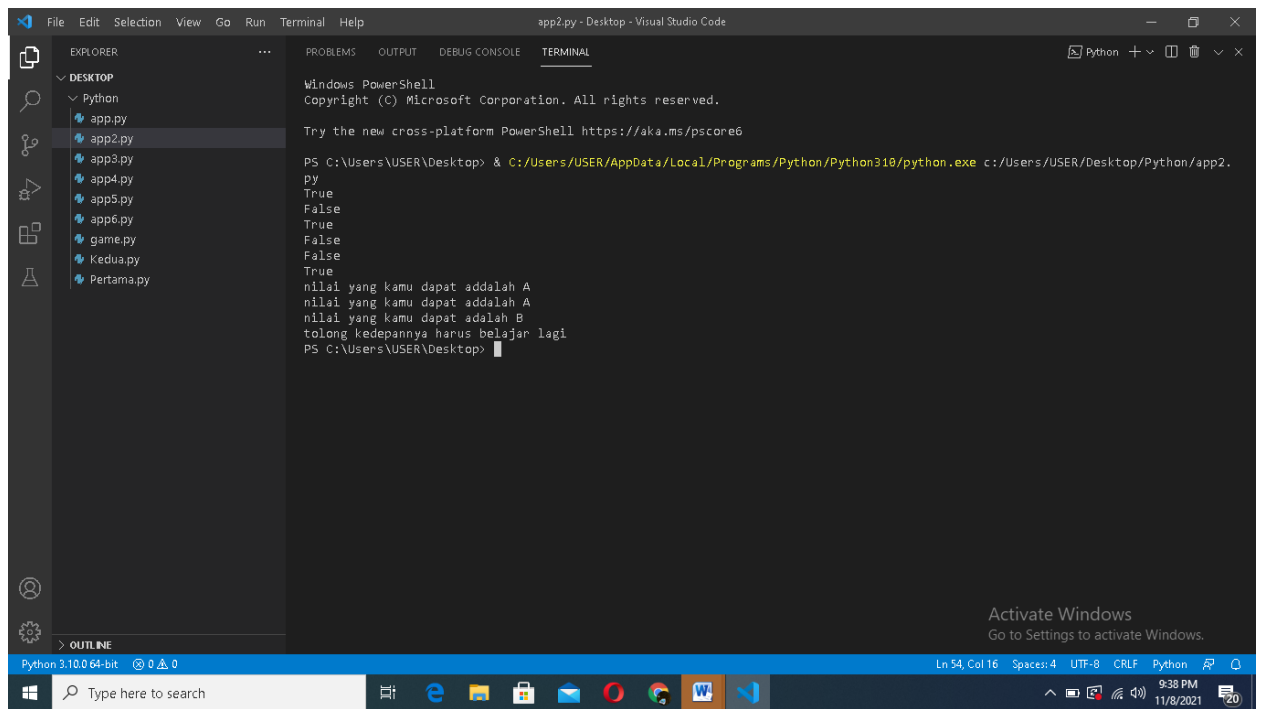
Activate Windows  
Go to Settings to activate Windows.

Python 3.10.0 64-bit @ 0.0.0 Ln 54, Col 16 Spaces: 4 UTF-8 CRLF Python

```
Python > app2.py > ...
32 elif grade >= 6:
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 >= 8:
40     print("nilai yang kamu dapat adalah A")
41 elif grade >= 7:
42     print("nilai yang kamu dapat adalah B")
43 elif grade >= 6:
44     print("nilai yang kamu dapat adalah C")
45 else:
46     print("tolong kedepannya harus belajar lagi")
47
48 grade = 5
49
50 if grade >= 7:
51     print("nilai yang kamu dapat adalah A")
52 elif grade >= 9:
53     print("nilai yang kamu dapat adalah B")
54 elif grade >= 8:
55     print("nilai yang kamu dapat adalah C")
56 else:
57     print("tolong kedepannya harus belajar lagi")
58
59
```

Activate Windows  
Go to Settings to activate Windows.

Python 3.10.0 64-bit @ 0.0.0 Ln 54, Col 16 Spaces: 4 UTF-8 CRLF Python

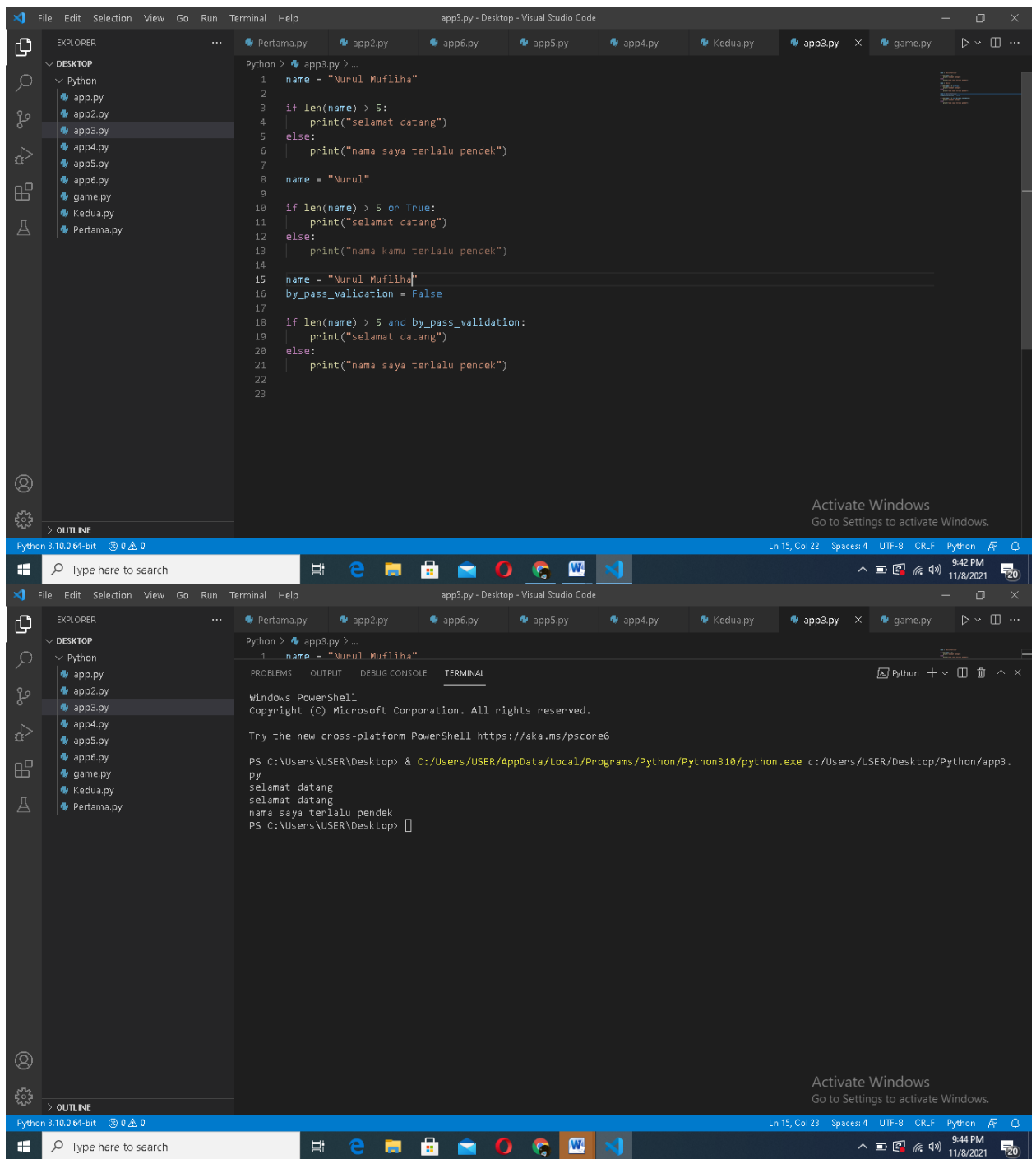


The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a directory structure under 'DESKTOP' containing a 'Python' folder with files 'app.py', 'app2.py', 'app3.py', 'app4.py', 'app5.py', 'app6.py', 'game.py', 'Kedua.py', and 'Pertama.py'. The 'app2.py' file is selected. The main editor area shows the 'TERMINAL' tab with a Windows PowerShell session. The terminal output shows the execution of a Python script using the command `PS C:\Users\USER\Desktop> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/USER/Desktop/Python/app2.py`. The script's output is as follows:

```
py
True
False
True
False
False
True
nilai yang kamu dapat adalah A
nilai yang kamu dapat adalah A
nilai yang kamu dapat adalah B
tolong kedepannya harus belajar lagi
PS C:\Users\USER\Desktop>
```

The status bar at the bottom indicates the Python 3.10.0 64-bit interpreter is active, with the cursor at line 54, column 16. The system tray shows the time as 9:38 PM on 11/8/2021.

### 3. OPERATOR LOGIKA



#### 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 code for app4.py:

```
Python > app4.py > ...
1 index = 9
2
3 while index <= 8:
4     print("program akan berjalan")
5     index += 7
6
7 print("selesai")
8
9 index = 6
10
11 while index <= 8:
12     print("** * index")
13     index += 7
14
15 print("selesai")
```

The terminal at the bottom shows the execution of the script using PowerShell:

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

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/app4.py
selesai
*****
selesai
PS C:\Users\USER\Desktop>
```

The status bar at the bottom indicates 'Python 3.10.0 64-bit' and the file is at 'Ln 13, Col 15'.

## 5. GAME TEBAK ANGKA

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying the same directory structure. The main editor displays the code for app5.py:

```
Python > app5.py > ...
1 trying = 0
2 secret_number = 6
3 limit = 3
4
5 while trying < limit:
6     guess_number = input("silakan masukkan angka dari (1-6) : ")
7     guess_number = int(guess_number)
8
9     if guess_number == secret_number:
10        print("selamat, kamu telah mencoba")
11
12        trying += 3
13
14 trying = 0
15 secret_number = 6
16 limit = 3
17
18 while trying < limit:
19     guess_number = input("silakan masukkan angka dari (1-6) : ")
20     guess_number = int(guess_number)
21
22     if guess_number == secret_number:
23        print("selamat, kamu telah mencoba")
24        break
25
26        trying += 3
```

The status bar at the bottom indicates 'Python 3.10.0 64-bit' and the file is at 'Ln 19, Col 59'.

The screenshot shows the Visual Studio Code interface with a Python file named `app5.py` open. The Explorer sidebar on the left shows a project structure with a `Python` folder containing several `app` files. The main editor displays the following Python code:

```
Python > app5.py > ...
1  trying = 0
2  secret_number = 6
3  limit = 3
4
5  while trying < limit:
6      guess_number = input("silakan masukkan angka dari (1-6) : ")
7      guess_number = int(guess_number)
8
9      if guess_number == secret_number:
10         print("selamat, kamu telah mencoba")
11
12     trying += 3
13
14     trying = 0
15     secret_number = 6
16     limit = 3
17
```

The TERMINAL panel at the bottom shows the execution of the script in Windows PowerShell:

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

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/app5.py
silakan masukkan angka dari (1-6) : 2
silakan masukkan angka dari (1-6) : 3
PS C:\Users\USER\Desktop>
```

The status bar at the bottom indicates the file is encoded in UTF-8 with CRLF line endings, and the cursor is at line 19, column 59.

## 6. APLIKASI KALKULATOR

The screenshot shows the Visual Studio Code interface with a Python file named `app6.py` open. The Explorer sidebar on the left shows a project structure with a `Python` folder containing several `app` files. The main editor displays the following Python code:

```
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
```

The status bar at the bottom indicates the file is encoded in UTF-8 with CRLF line endings, and the cursor is at line 26, column 16.

