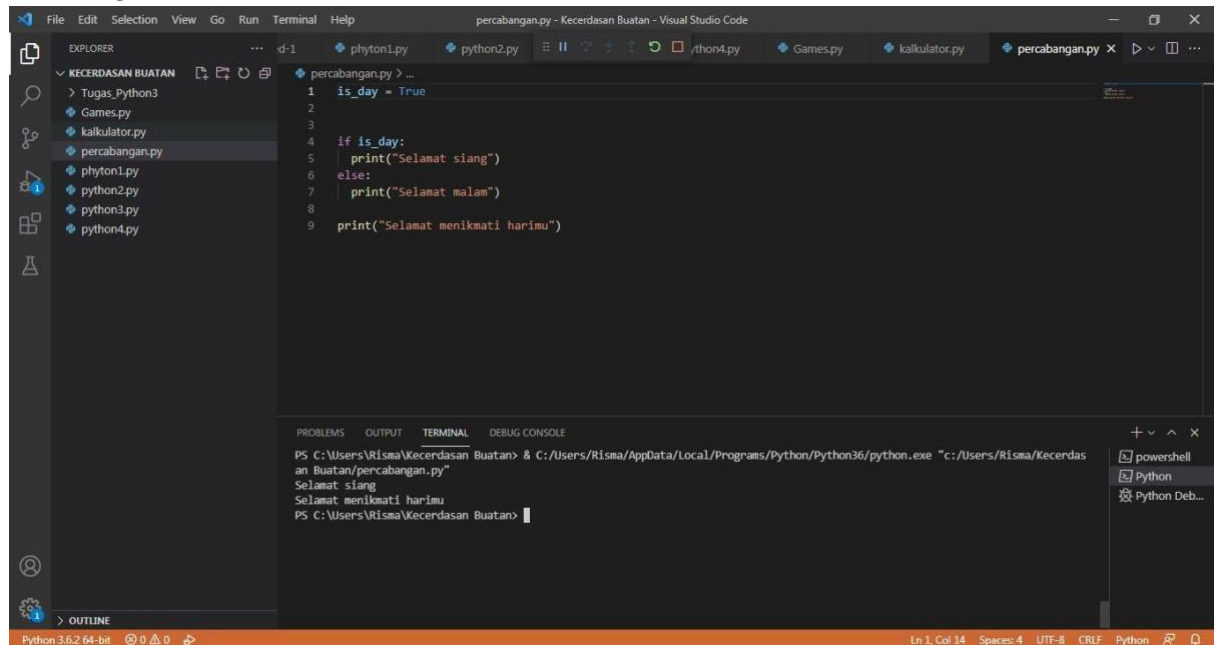


Nama : Yuni sukana

NIM : 20.01.013.031

Kelas : Teknik Informatika A

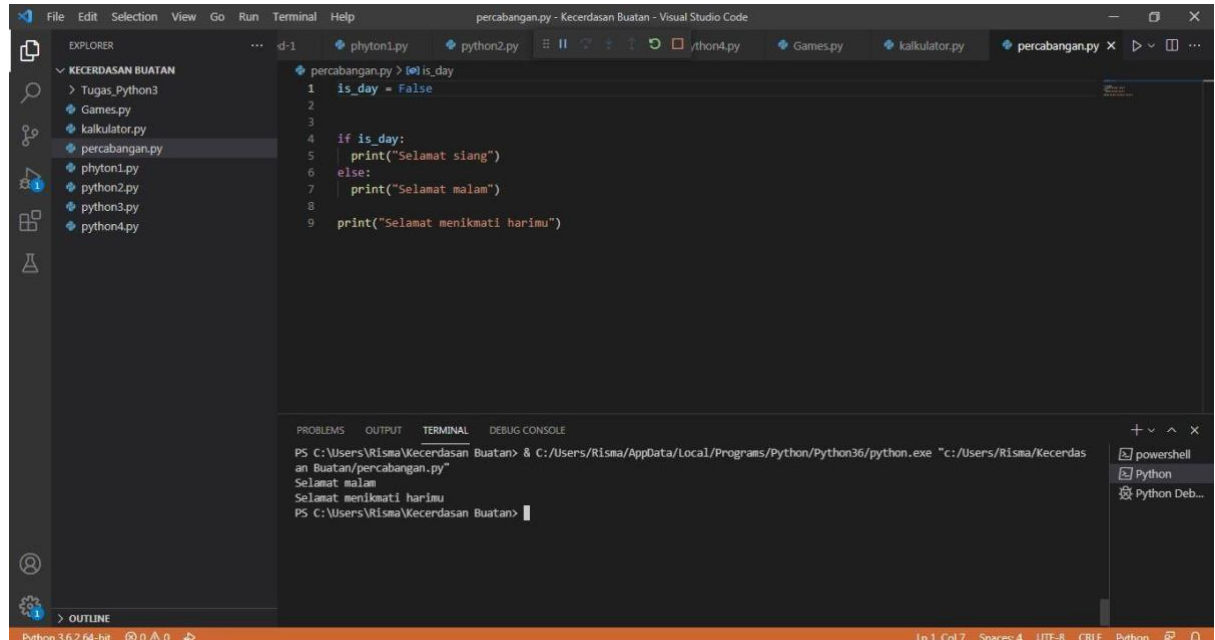
## 1. Percabangan if



```
1 is_day = True
2
3
4 if is_day:
5     print("Selamat siang")
6 else:
7     print("Selamat malam")
8
9 print("Selamat menikmati harimu")
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/percabangan.py"
Selamat siang
Selamat menikmati harimu
PS C:\Users\Risma\Kecerdasan Buatan>
```



```
1 is_day = False
2
3
4 if is_day:
5     print("Selamat siang")
6 else:
7     print("Selamat malam")
8
9 print("Selamat menikmati harimu")
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/percabangan.py"
Selamat malam
Selamat menikmati harimu
PS C:\Users\Risma\Kecerdasan Buatan>
```

## 2. Operator Perbandingan

```
1 grade = 7
2
3 if grade >= 9:
4     print("Nilai kamu A")
5 elif grade >= 8:
6     print("Nilai kamu B")
7 elif grade >= 7:
8     print("Nilai kamu C")
9 else:
10    print("Silahkan belajar lagi dengan tekun")
```

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/Operator_Perbandingan.py"
Nilai kamu C
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/Operator_Perbandingan.py"
Nilai kamu C
PS C:\Users\Risma\Kecerdasan Buatan>
```

### 3. Operator Logika

- Percobaan 1:

```
1 name = "Rismayanti"
2
3 if len(name) > 3:
4     print("welcome")
5 else:
6     print("Nama Terlalu Pendek!")
7
```

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/Operator_Logika.py"
welcome
PS C:\Users\Risma\Kecerdasan Buatan>
```

- Percobaan 2:

```
1 name = "Risma"
2
3 if len(name) > 6:
4     print("welcome")
5 else:
6     print("Nama Terlalu Pendek!")
7
```

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/Operator_Logika.py"
Nama Terlalu Pendek!
PS C:\Users\Risma\Kecerdasan Buatan>
```

### 4. Perulangan While

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'KECERDASAN BUATAN'. The file 'perulangan\_while.py' is open in the editor. The code is as follows:

```
1 index = 1
2
3 while index <= 5:
4     print("Rumah")
5     index += 1
6
7 print("Finish")
8
```

The terminal at the bottom shows the execution of the script, outputting 'Rumah' five times followed by 'Finish'.

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/perulangan_while.py"
Rumah
Rumah
Rumah
Rumah
Rumah
Finish
PS C:\Users\Risma\Kecerdasan Buatan>
```

## 5. Game Tebak Angka

The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'KECERDASAN BUATAN'. The file 'Games.py' is open in the editor. The code is as follows:

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

The terminal at the bottom shows the execution of the script, outputting 'Masukan angka 1-9 : 9', 'Masukan angka 1-9 : 3', 'Masukan angka 1-9 : 2', 'Selamat,Kamu Menang', and 'Masukan angka 1-9 : '.

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/Games.py"
Masukan angka 1-9 : 9
Masukan angka 1-9 : 3
Masukan angka 1-9 : 2
Selamat,Kamu Menang
Masukan angka 1-9 : 
```

Penambahan Fungsi Break :

The screenshot shows the Visual Studio Code interface with the 'Games.py' file open. The file contains a Python script for a number-guessing game. The terminal shows the execution of the script, which prompts the user to enter a number between 1 and 9. The user enters '2', and the program outputs 'Selamat, Kamu Menang'.

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

Terminal Output:

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/Games.py"
Masukan angka 1-9 : 2
Selamat, Kamu Menang
PS C:\Users\Risma\Kecerdasan Buatan>
```

## 6. Aplikasi Kalkulator

- Perintah tambah (+)

The screenshot shows the Visual Studio Code interface with the 'kalkulator.py' file open. The file contains a Python script for a calculator. The terminal shows the execution of the script, which prompts the user to enter two numbers and an operator. The user enters '10', '10', and '+', and the program outputs 'Hasil : 20'.

```
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}")
```

Terminal Output:

```
PS C:\Users\Risma\Kecerdasan Buatan> & C:/Users/Risma/AppData/Local/Programs/Python/Python36/python.exe "c:/Users/Risma/Kecerdasan Buatan/kalkulator.py"
perintah : +
Angka pertama : 10
Angka kedua : 10
Hasil : 20
perintah :
```

- Perintah Kurang(-)

```
File Edit Selection View Go Run Terminal Help
kalkulator.py - Kecerdasan Buatan - Visual Studio Code

EXPLORER
Kecerdasan Buatan
  Tugas_Python3
  Games.py
  kalkulator.py
  python1.py
  python2.py
  python3.py
  python4.py

kalkulator.py
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

TERMINAL
PS C:\Users\Risma\Kecerdasan Buatan> & C:\Users\Risma\AppData\Local\Programs\Python\Python36\python.exe "c:/Users/Risma/Kecerdasan Buatan/kalkulator.py"
perintah : -
Angka pertama : 20
Angka kedua : 5
Hasil : 15
perintah :
```

- Perintah Kali(\*)

```
File Edit Selection View Go Run Terminal Help
kalkulator.py - Kecerdasan Buatan - Visual Studio Code

EXPLORER
Kecerdasan Buatan
  Tugas_Python3
  Games.py
  kalkulator.py
  python1.py
  python2.py
  python3.py
  python4.py

kalkulator.py
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

TERMINAL
PS C:\Users\Risma\Kecerdasan Buatan> & C:\Users\Risma\AppData\Local\Programs\Python\Python36\python.exe "c:/Users/Risma/Kecerdasan Buatan/kalkulator.py"
perintah : *
Angka pertama : 5
Angka kedua : 4
Hasil : 20
perintah :
```

- Perintah Bagi (/)

```
File Edit Selection View Go Run Terminal Help
kalkulator.py - Kecerdasan Buatan - Visual Studio Code

EXPLORER
Kecerdasan Buatan
  Tugas_Python3
  Games.py
  kalkulator.py
  python1.py
  python2.py
  python3.py
  python4.py

kalkulator.py
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

TERMINAL
PS C:\Users\Risma\Kecerdasan Buatan> & C:\Users\Risma\AppData\Local\Programs\Python\Python36\python.exe "c:/Users/Risma/Kecerdasan Buatan/kalkulator.py"
perintah : /
Angka pertama : 40
Angka kedua : 2
Hasil : 20.0
```