

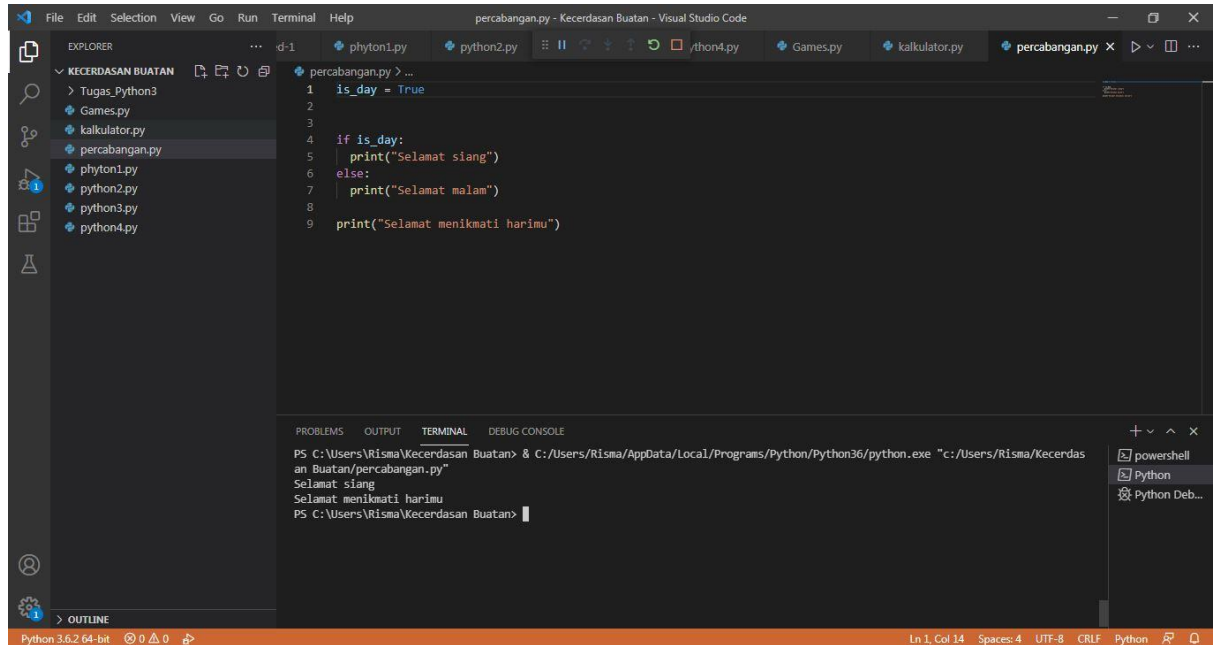
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NIM : 20.01.013.025

Kelas : Teknik Informatika A

Tugas Python 3

1. Percabangan if

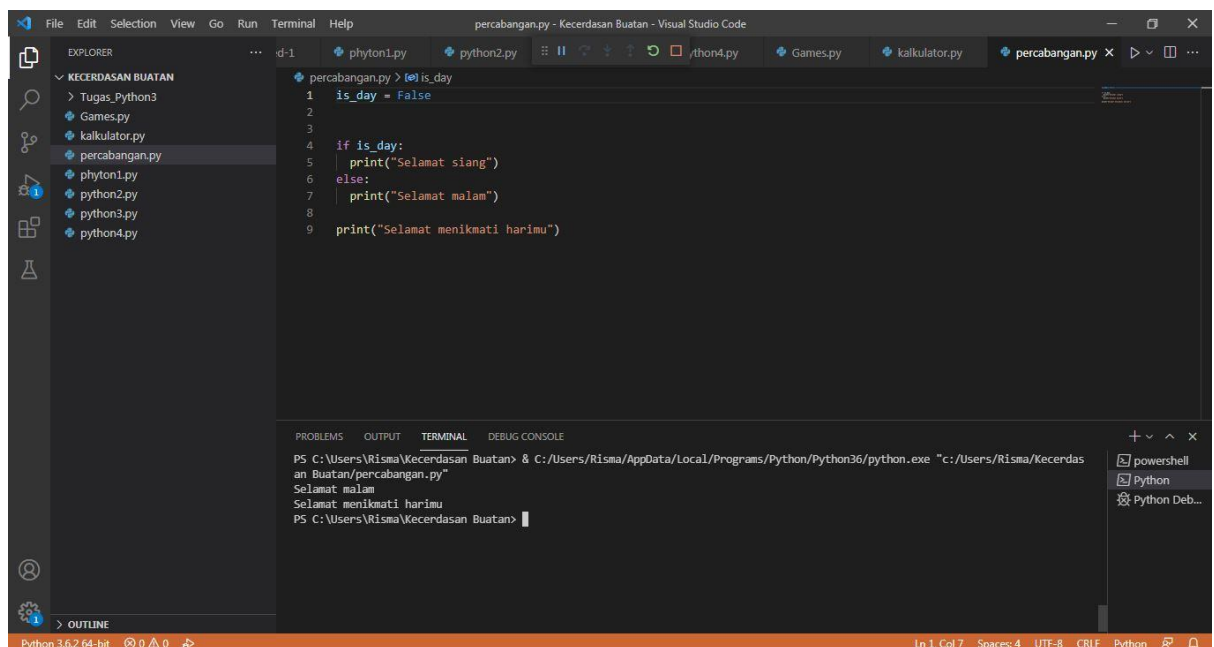


The screenshot shows the Visual Studio Code interface with a Python file named `percabangan.py` open. The code defines a variable `is_day` as `True` and uses an `if` statement to print "Selamat siang" if `is_day` is `True`, and "Selamat malam" otherwise. The terminal output shows "Selamat siang" and "Selamat menikmati harimu".

```
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")
```

Terminal Output:

```
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>
```



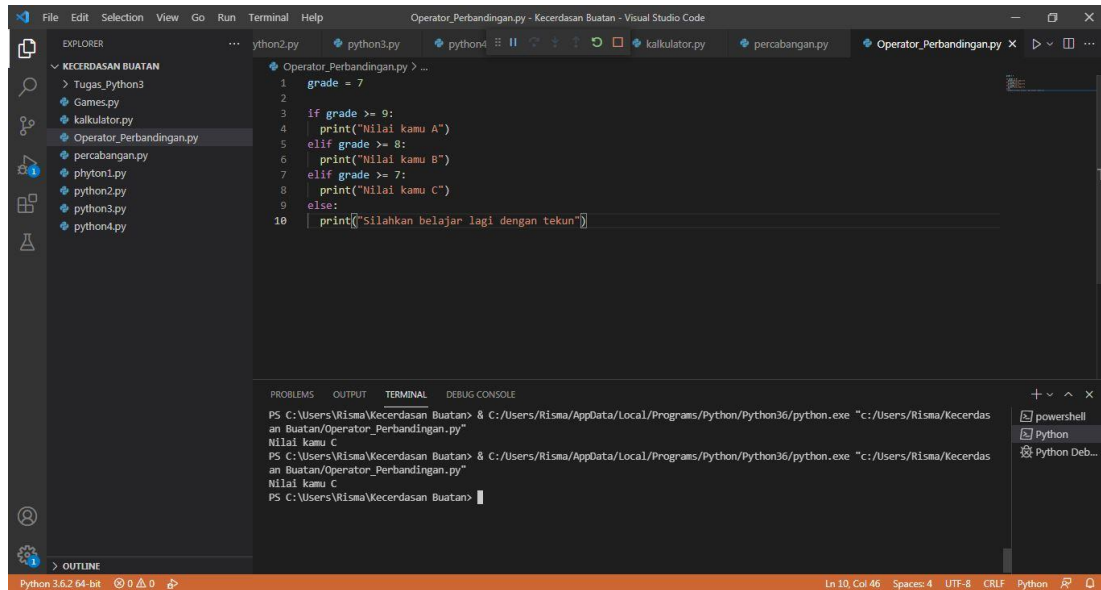
The screenshot shows the same Visual Studio Code interface, but the variable `is_day` is now set to `False`. The terminal output shows "Selamat malam" and "Selamat menikmati harimu".

```
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")
```

Terminal Output:

```
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



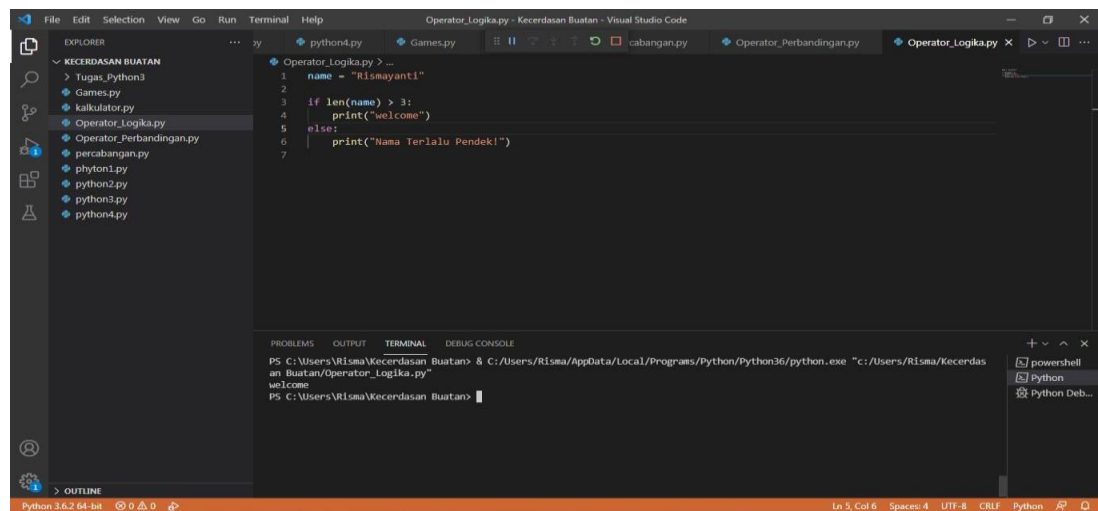
```
Operator_Perbandingan.py > ...
1 grade = 7
2
3 if grade >= 9:
4     print("Nilai kamu A")
5 elif grade >= 8:
6     print("Nilai kamu B")
7 elif grade >= 7:
8     print("Nilai kamu C")
9 else:
10    print("Silahkan belajar lagi dengan tekun")
```

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/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:

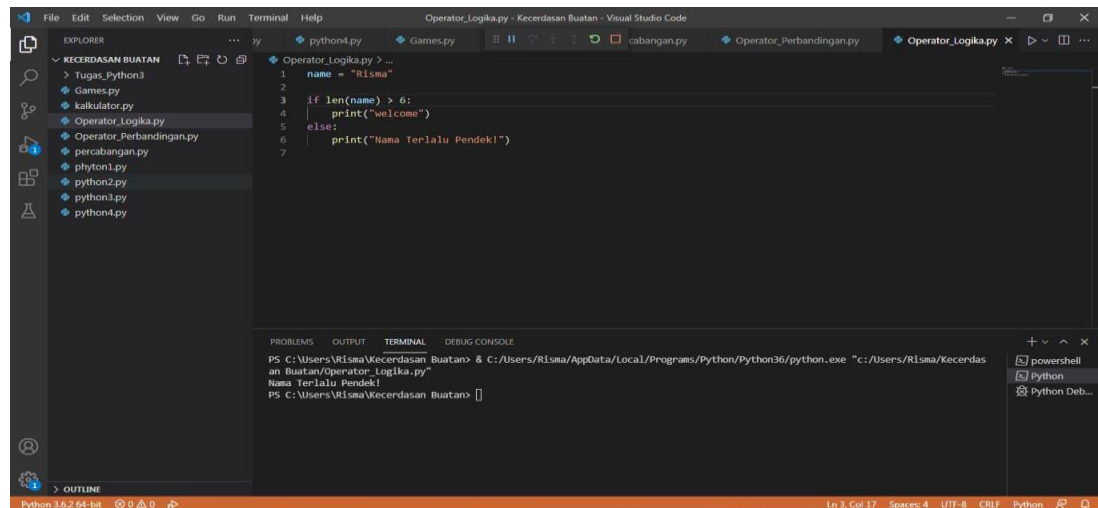


```
Operator_Logika.py > ...
1 name = "Rismayanti1"
2
3 if len(name) > 3:
4     print("welcome")
5 else:
6     print("Nama Terlalu Pendek!")
7
```

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/Operator_Logika.py"
welcome
PS C:\Users\Risma\Kecerdasan Buatan>
```

- Percobaan 2:

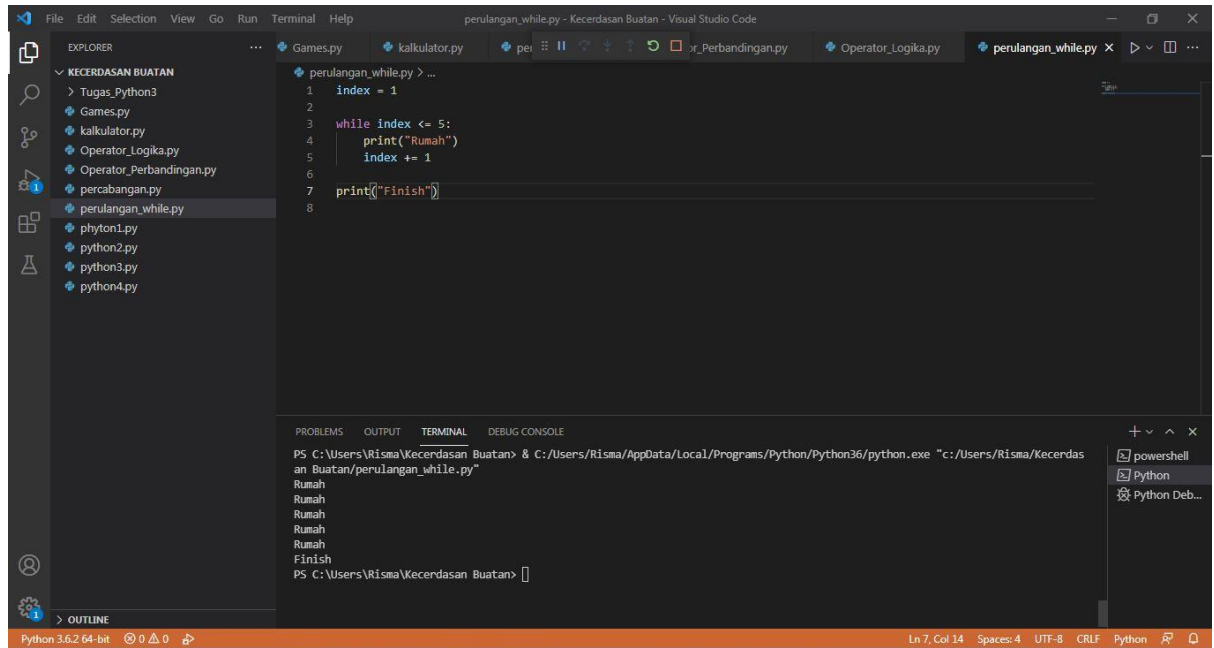


```
Operator_Logika.py > ...
1 name = "Risma"
2
3 if len(name) > 6:
4     print("welcome")
5 else:
6     print("Nama Terlalu Pendek!")
7
```

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/Operator_Logika.py"
Nama Terlalu Pendek!
PS C:\Users\Risma\Kecerdasan Buatan>
```

4. Perulangan While



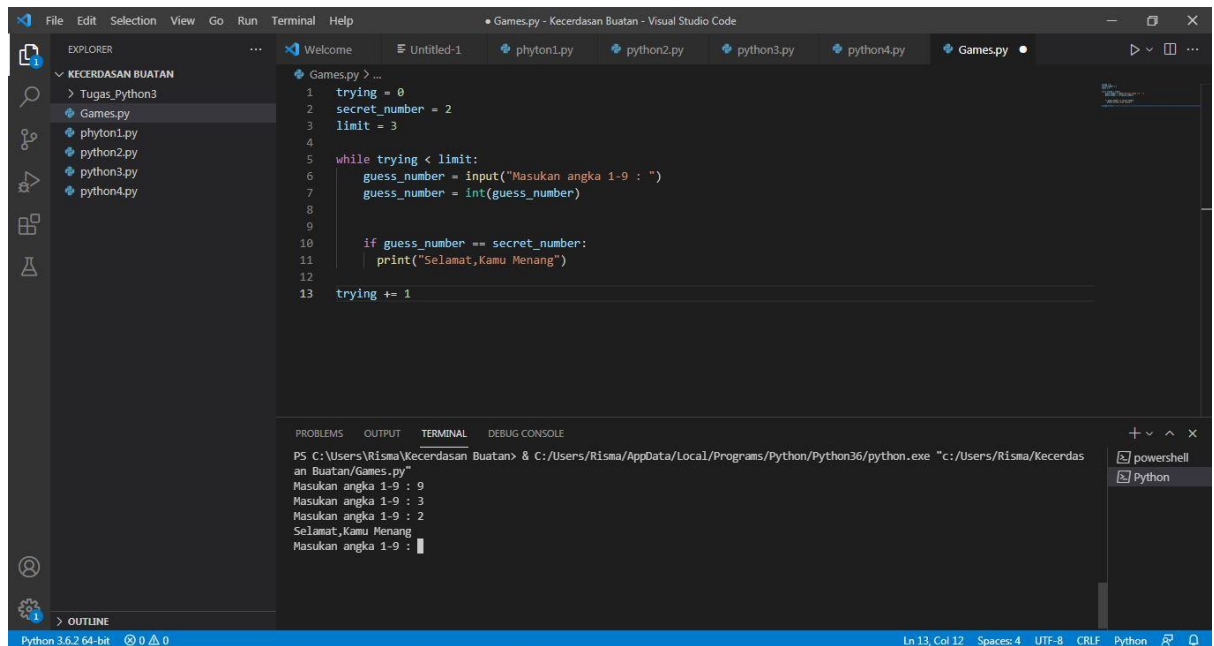
The screenshot shows the Visual Studio Code interface with a Python file named `perulangan_while.py` open. The code is as follows:

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

The terminal output shows the execution of the script, printing "Rumah" five times and "Finish" once.

```
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



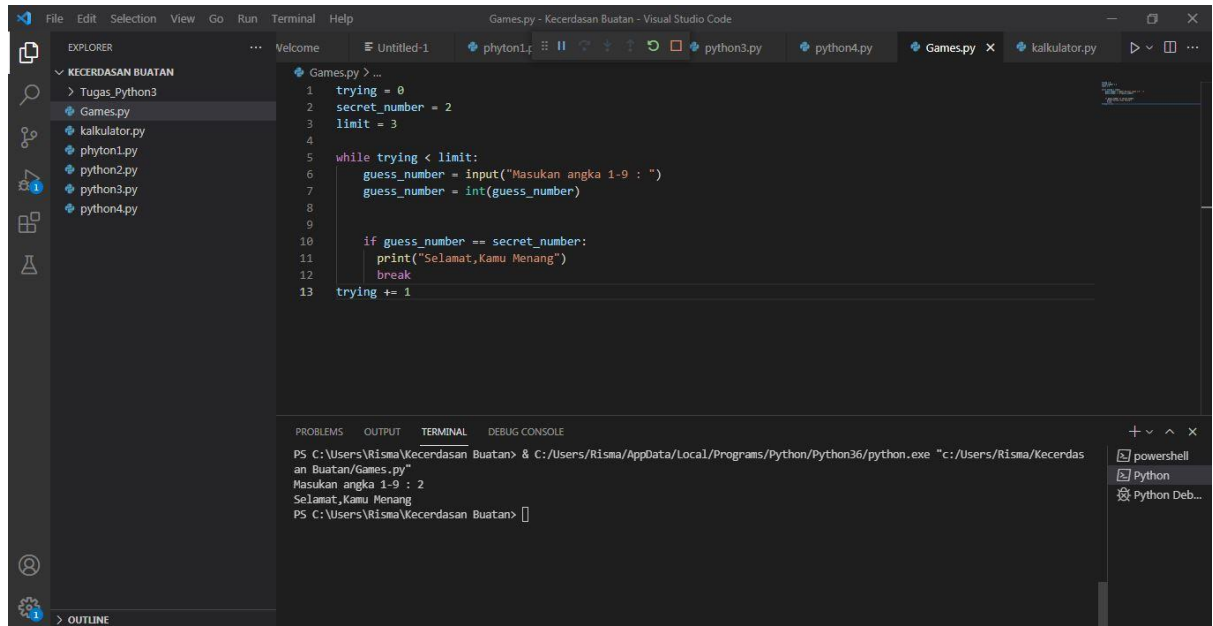
The screenshot shows the Visual Studio Code interface with a Python file named `Games.py` open. The code is as follows:

```
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 output shows the execution of the script, where the user enters 0, 3, and 2, and the program prints "Selamat,Kamu Menang" after the third guess.

```
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 : 0
Masukan angka 1-9 : 3
Masukan angka 1-9 : 2
Selamat,Kamu Menang
Masukan angka 1-9 :
```

Penambahan Fungsi Break :



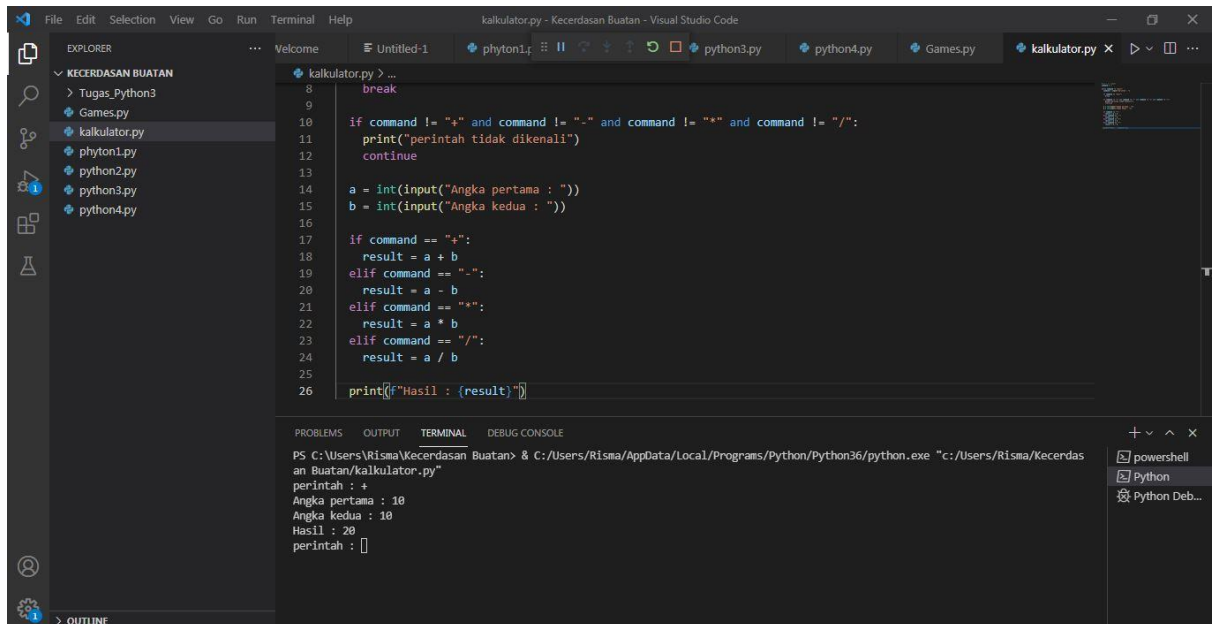
```
Games.py > ...
1  trying = 0
2  secret_number = 2
3  limit = 3
4
5  while trying < limit:
6      guess_number = input("Masukan angka 1-9 : ")
7      guess_number = int(guess_number)
8
9
10     if guess_number == secret_number:
11         print("Selamat,Kamu Menang")
12         break
13     trying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

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/Games.py"
Masukan angka 1-9 : 2
Selamat,Kamu Menang
PS C:\Users\Risma\Kecerdasan Buatan>
```

6. Aplikasi Kalkulator

- Perintah tambah (+)



```
kalkulator.py > ...
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}")
```

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/kalkulator.py"
perintah : +
Angka pertama : 10
Angka kedua : 10
Hasil : 20
perintah :
```

- Perintah Kurang(-)

```

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

```

```

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(*)

```

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

```

```

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 (/)

```

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

```

```

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

```