

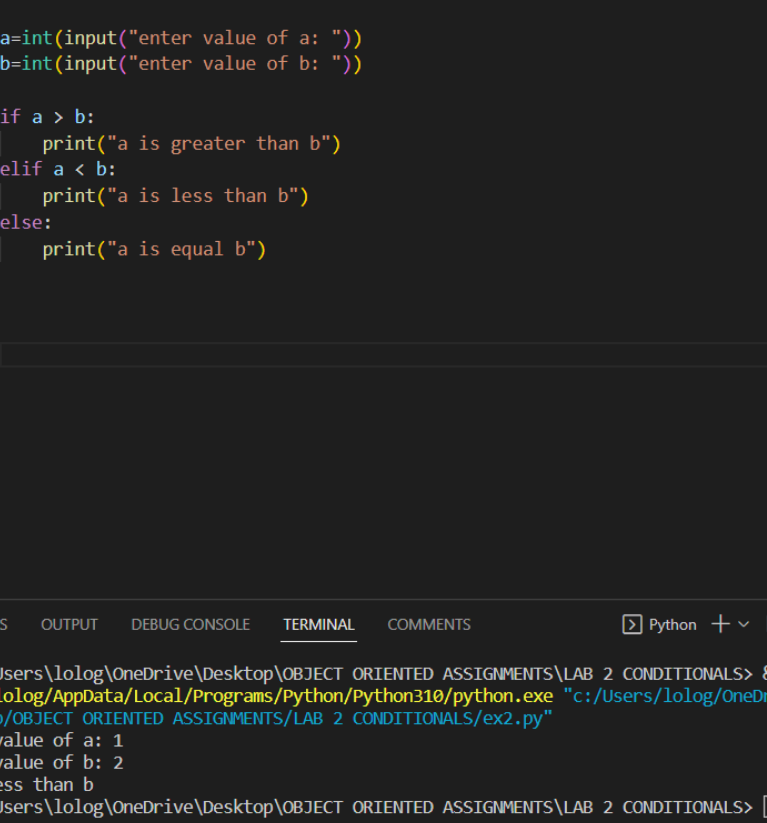
Ex2

```
# integer comparison

a=int(input("enter value of a: "))
b=int(input("enter value of b: "))

if a > b:
    print("a is greater than b")
elif a < b:
    print("a is less than b")
else:
    print("a is equal b")
```

ex2 solution screenshot



The screenshot displays a Python IDE with three tabs: ex2.py, ex4.py, and ex5.py. The active tab is ex2.py, which contains the following code:

```
1 # integer comparison
2
3 a=int(input("enter value of a: "))
4 b=int(input("enter value of b: "))
5
6 if a > b:
7     print("a is greater than b")
8 elif a < b:
9     print("a is less than b")
10 else:
11     print("a is equal b")
12
13
14
15
```

The bottom panel shows the TERMINAL output:

```
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\LAB 2 CONDITIONALS> & C:/Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Desktop/OBJECT ORIENTED ASSIGNMENTS/LAB 2 CONDITIONALS/ex2.py"
enter value of a: 1
enter value of b: 2
a is less than b
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\LAB 2 CONDITIONALS>
```

ex4

```
# simple calculator

a = float(input("enter value of a: "))
b = float(input("enter value of b: "))

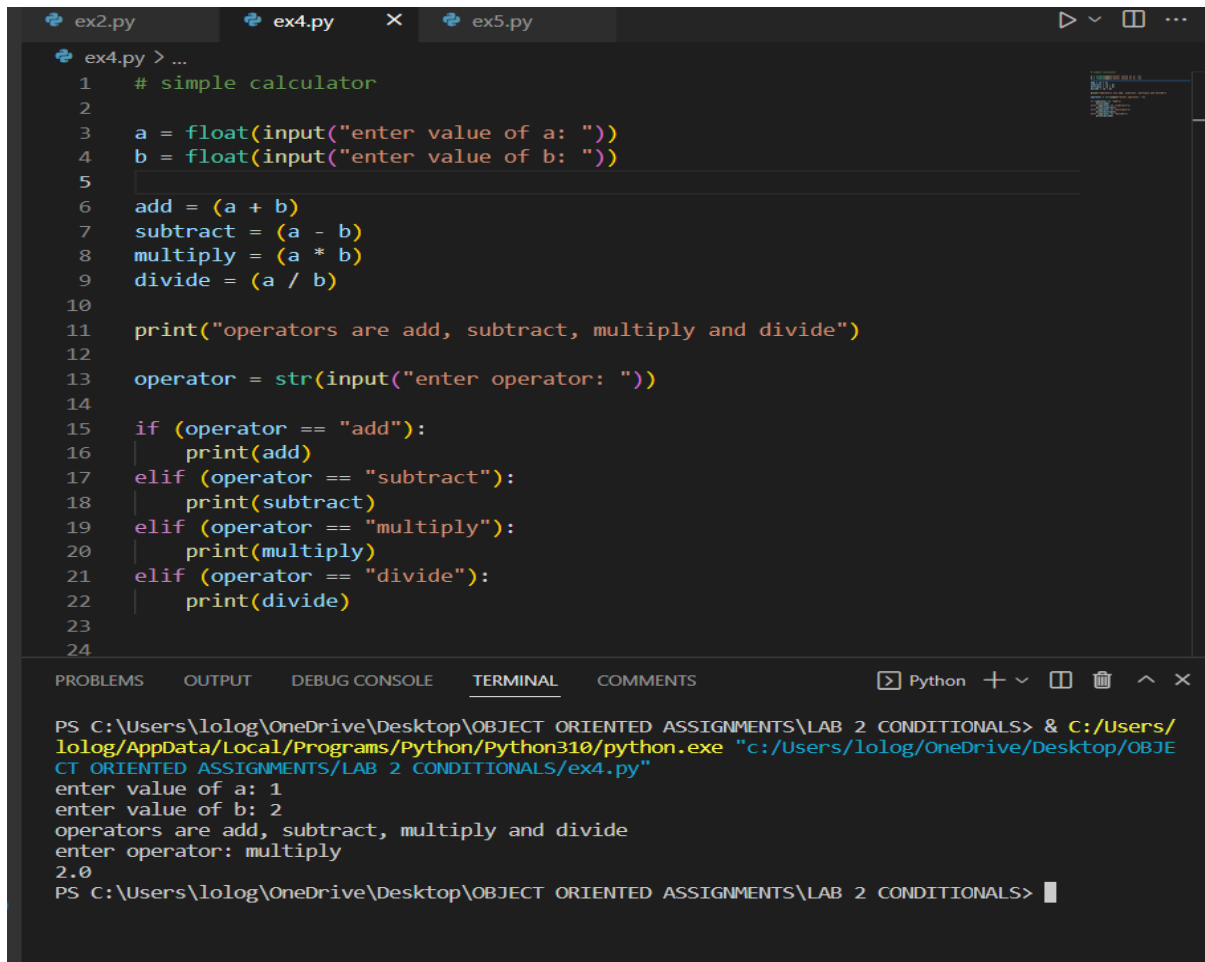
add = (a + b)
subtract = (a - b)
multiply = (a * b)
divide = (a / b)

print("operators are add, subtract, multiply and divide")

operator = str(input("enter operator: "))

if (operator == "add"):
    print(add)
elif (operator == "subtract"):
    print(subtract)
elif (operator == "multiply"):
    print(multiply)
elif (operator == "divide"):
    print(divide)
```

Ex4 solution screenshot



The screenshot shows a Python IDE with three tabs: ex2.py, ex4.py (active), and ex5.py. The active tab displays a Python script for a simple calculator. The script prompts the user for two numbers, a and b, and then for an operator. It calculates the result based on the operator and prints it.

```
1  # simple calculator
2
3  a = float(input("enter value of a: "))
4  b = float(input("enter value of b: "))
5
6  add = (a + b)
7  subtract = (a - b)
8  multiply = (a * b)
9  divide = (a / b)
10
11 print("operators are add, subtract, multiply and divide")
12
13 operator = str(input("enter operator: "))
14
15 if (operator == "add"):
16     print(add)
17 elif (operator == "subtract"):
18     print(subtract)
19 elif (operator == "multiply"):
20     print(multiply)
21 elif (operator == "divide"):
22     print(divide)
23
24
```

The terminal window at the bottom shows the command prompt running the script. The output matches the program's logic: it prompts for 'a' (1), 'b' (2), and the operator ('multiply'), then prints the result '2.0'.

```
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\LAB 2 CONDITIONALS> & c:/Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Desktop/OBJECT ORIENTED ASSIGNMENTS/LAB 2 CONDITIONALS/ex4.py"
enter value of a: 1
enter value of b: 2
operators are add, subtract, multiply and divide
enter operator: multiply
2.0
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\LAB 2 CONDITIONALS>
```

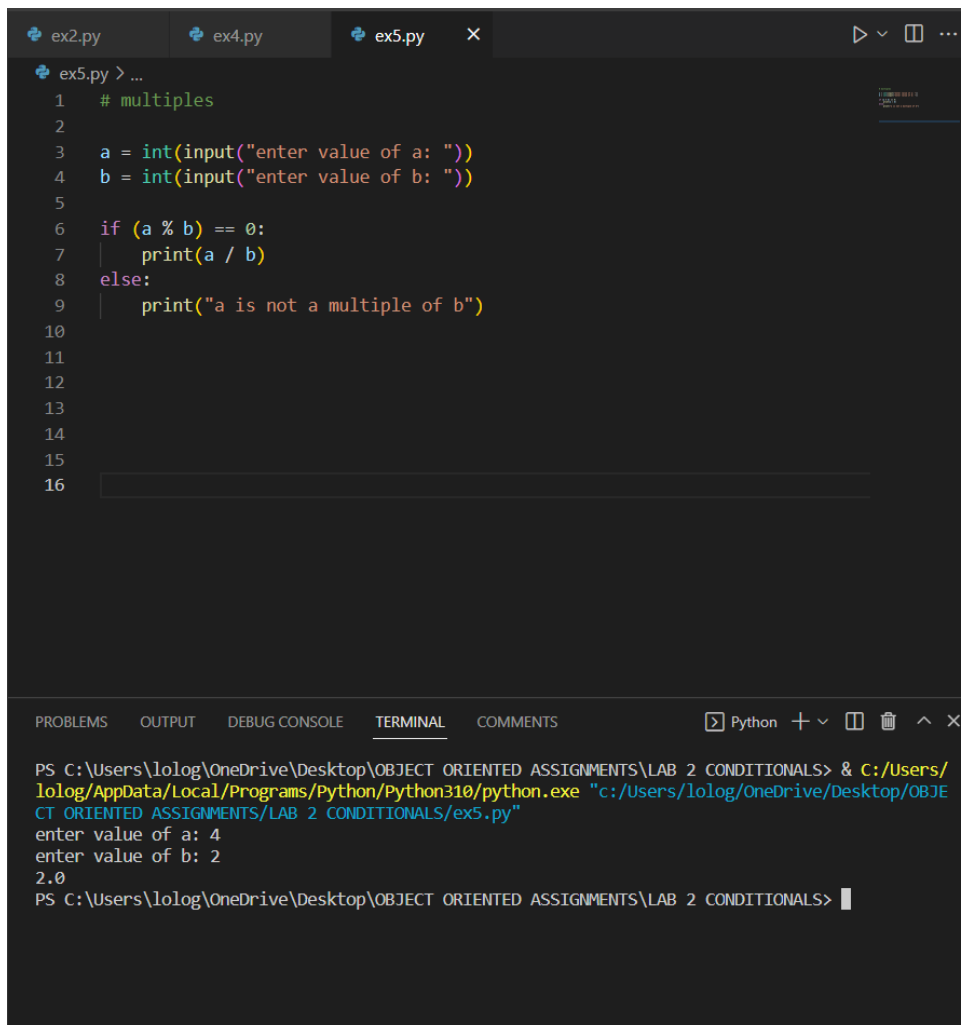
Ex5

```
# multiples

a = int(input("enter value of a: "))
b = int(input("enter value of b: "))

if (a % b) == 0:
    print(a / b)
else:
    print("a is not a multiple of b")
```

ex5 solution screenshot



```
ex5.py > ...
1  # multiples
2
3  a = int(input("enter value of a: "))
4  b = int(input("enter value of b: "))
5
6  if (a % b) == 0:
7      print(a / b)
8  else:
9      print("a is not a multiple of b")
10
11
12
13
14
15
16
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL COMMENTS Python + -

```
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\LAB 2 CONDITIONALS> & C:/Users/
lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Desktop/OBJE
CT ORIENTED ASSIGNMENTS/LAB 2 CONDITIONALS/ex5.py"
enter value of a: 4
enter value of b: 2
2.0
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\LAB 2 CONDITIONALS>
```