

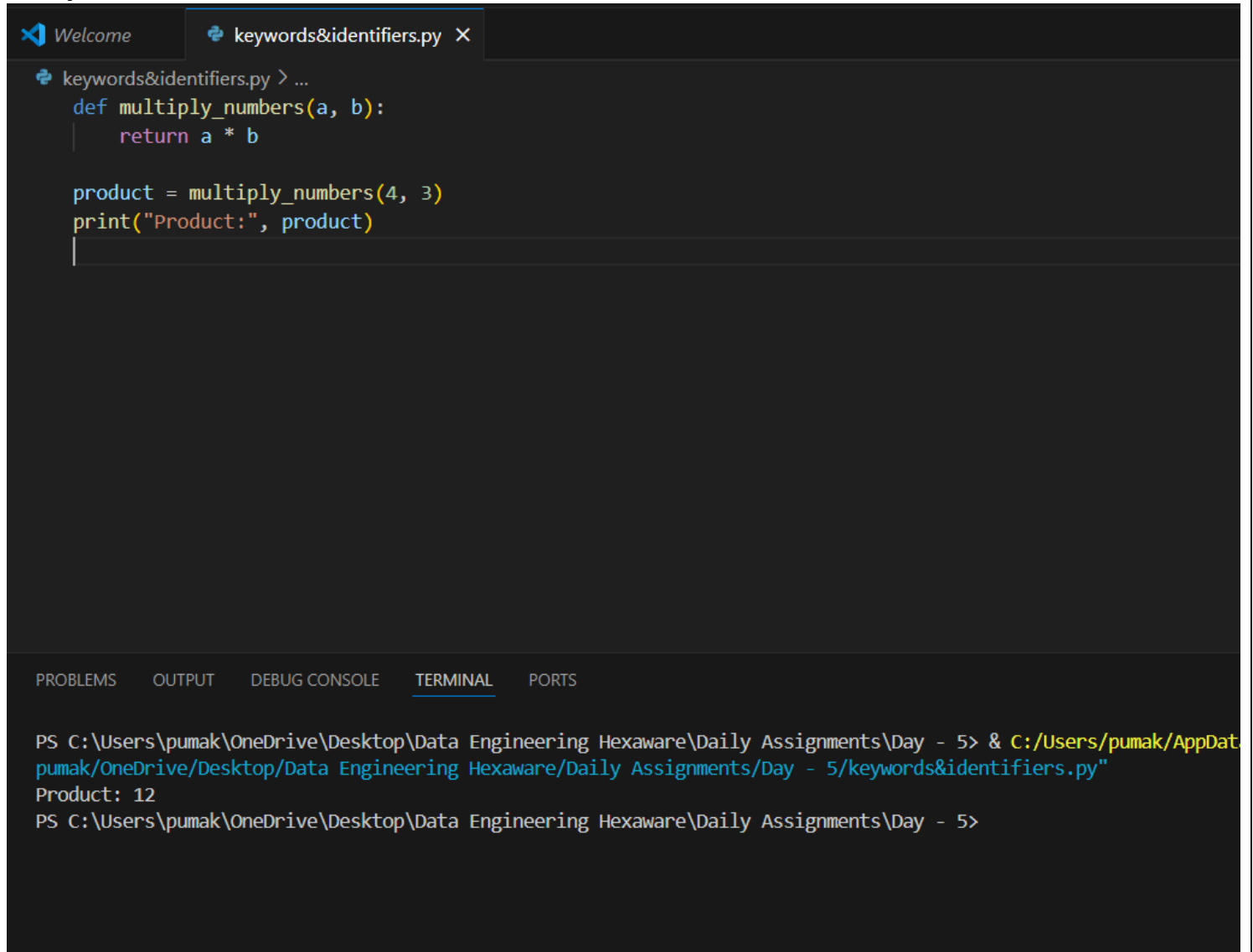
Python Assignment

Introduction to Python

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1. Keywords and Identifiers:



The screenshot shows a Python IDE with a file named `keywords&identifiers.py`. The code defines a function `multiply_numbers(a, b)` that returns the product of `a` and `b`. It then calls this function with arguments `4` and `3`, storing the result in `product`, and prints it. The terminal output shows the command to run the script and the resulting output `Product: 12`.

```
Welcome keywords&identifiers.py X
keywords&identifiers.py > ...
def multiply_numbers(a, b):
    return a * b

product = multiply_numbers(4, 3)
print("Product:", product)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> & C:/Users/pumak/AppData\Local\Microsoft\Windows\Terminal\Profiles\pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5/keywords&identifiers.py"
Product: 12
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5>
```

2.Variables and operators:

variables&operators.py > [x]

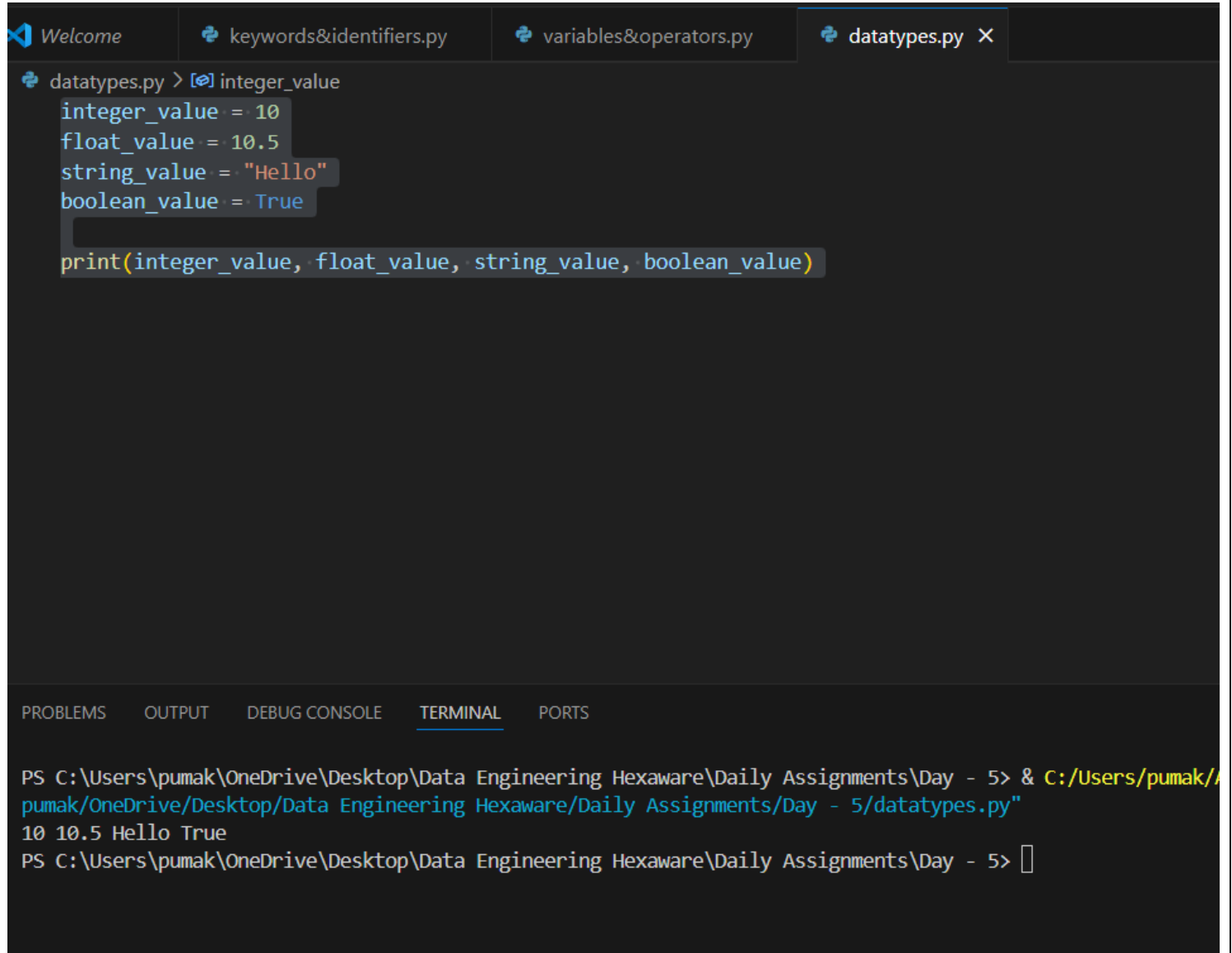
```
x = 12
y = 7

print("Addition:", x + y)
print("Subtraction:", x - y)
print("Multiplication:", x * y)
print("Division:", x / y)
print("Is x greater than y?", x > y)
print("Is x equal to y?", x == y)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> & C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\keywords&identify
Product: 12
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> & C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\variables&operators.py
Addition: 19
Subtraction: 5
Multiplication: 84
Division: 1.7142857142857142
Is x greater than y? True
Is x equal to y? False
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5>
```

3.Datatypes:



The image shows a Python IDE with four tabs: 'Welcome', 'keywords&identifiers.py', 'variables&operators.py', and 'datatypes.py'. The 'datatypes.py' tab is active and contains the following code:

```
integer_value = 10
float_value = 10.5
string_value = "Hello"
boolean_value = True

print(integer_value, float_value, string_value, boolean_value)
```

Below the code editor is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active and shows the command to run the script and its output:

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> & C:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5/datatypes.py"
10 10.5 Hello True
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> 
```

4.Numeric:

```
Welcome | keywords&identifiers.py | variables&operators.py | datatypes.py | numeric.py
numeric.py > [a]
a = 15
b = 2.5
c = 1 + 2j

print("Integer:", a)
print("Float:", b)
print("Complex:", c)
print("Addition of a and b:", a + b)
print("Real part of c:", c.real)
print("Imaginary part of c:", c.imag)
```

PROBLEMS | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> & C:/Use
pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5/numeric.py"
Integer: 15
Float: 2.5
Complex: (1+2j)
Addition of a and b: 17.5
Real part of c: 1.0
Imaginary part of c: 2.0
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> [ ]
```

5.Sequence:

```
sequence.py > ...  
list_example = [1, 2, 3, 4]  
tuple_example = (5, 6, 7, 8)  
string_example = "Python"  
  
print("List:", list_example)  
print("Tuple:", tuple_example)  
print("String:", string_example)  
print("List element:", list_example[2])  
print("Tuple element:", tuple_example[1])  
print("Substring:", string_example[0:3])
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> & C:  
umak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5/sequence.py"  
List: [1, 2, 3, 4]  
Tuple: (5, 6, 7, 8)  
String: Python  
List element: 3  
Tuple element: 6  
Substring: Pyt  
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5> █
```

6.Boolena.py:

boolena.py > ...

```
x = 10
```

```
y = 20
```

```
print(x > y)
```

```
print(x < y)
```

```
print(x == 10)
```

```
print(y != 20)
```

```
print(bool(0))
```

```
print(bool(1))
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day -  
pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5/boolena.py  
False
```

```
True
```

```
True
```

```
False
```

```
False
```

```
True
```

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day -
```