

3.7: Defining Functions in Python (Multiplying 4 Numbers) Walkthrough

During the lecture, you were asked to produce some pseudocode for the following example:

*You need to write a program which takes in four numbers from the user, multiplies them together, and prints the answer.*

In this walkthrough, we are going to convert that pseudocode into functioning code. The following table shows how the pseudocode converts into functioning code:

| **Pseudocode** | **Functioning Code** |
| --- | --- |
| OUTPUT enter first number  INPUT number entered by user  ASSIGN to variable (num\_1) | num\_1 = int(input("Enter number 1: ")) |
| OUTPUT enter second number  INPUT number entered by user  ASSIGN to variable (num\_2) | num\_2 = int(input("Enter number 2: ")) |
| OUTPUT enter third number  INPUT number entered by user  ASSIGN to variable (num\_3) | num\_3 = int(input("Enter number 3: ")) |
| OUTPUT enter fourth number  INPUT number entered by user  ASSIGN to variable (num\_4) | num\_4 = int(input("Enter number 4: ")) |
| CALCULATE num\_1 \* num\_2 \* num\_3 \* num\_4  ASSIGN to variable (product) | product = num\_1 \* num\_2 \* num\_3 \* num\_4 |
| OUTPUT product | print("The product of the 4 numbers is:", product) |

Putting this together, your code should be:

def multiply\_four\_numbers():

num\_1 = int(input("Enter number 1: "))

num\_2 = int(input("Enter number 2: "))

num\_3 = int(input("Enter number 3: "))

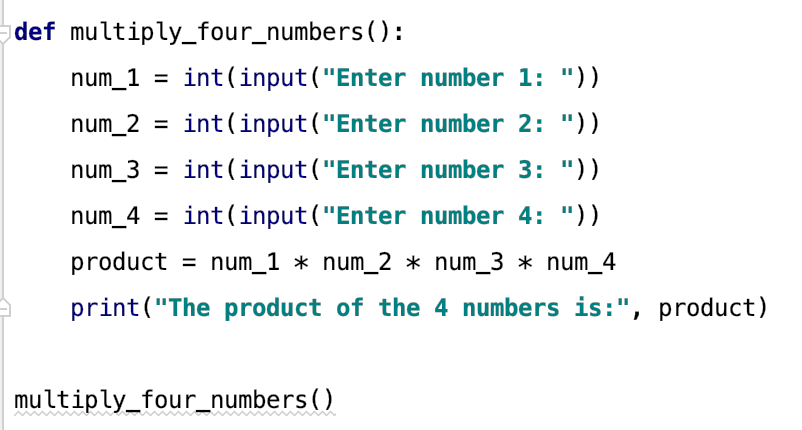
num\_4 = int(input("Enter number 4: "))

product = num\_1 \* num\_2 \* num\_3 \* num\_4

print("The product of the 4 numbers is:", product)

multiply\_four\_numbers()

So, your file should look as follows:



When you run the program, you get the following output:

