

Gerald Blackwell

3.3 Guided Practice Introduction to Functions

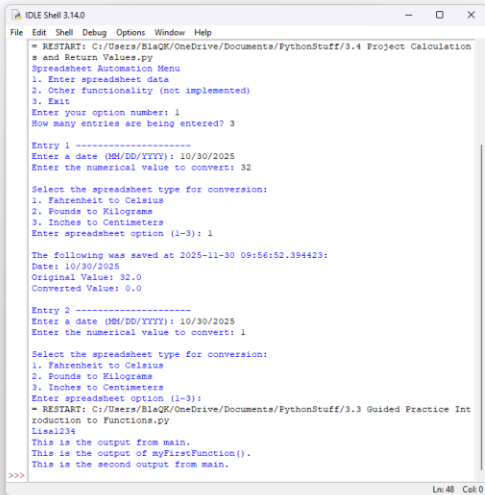
1.

```
3.3 Guided Practice Introduction to Functions.py - C:/Users/BlacK/OneDrive/Documents/PythonStuff/3.3 Guided Practice Introduction to Functions.py (3.14.0)
File Edit Format Run Options Window Help
print("Line1234")
# This program demonstrates how to call one simple function.

def myFirstFunction():
    # This function's only task is to write a line to the console.
    print("This is the output of myFirstFunction().")

def main():
    print("This is the output from main.")
    myFirstFunction()
    print("This is the second output from main.")

main()
```



```
IDE Shell 3.14.0
File Edit Shell Debug Options Window Help
= RESTART: C:/Users/BlacK/OneDrive/Documents/PythonStuff/3.4 Project Calculation
# and Return Values.py
Spreadsheet Automation Menu
1. Enter spreadsheet data
2. Other functionality (not implemented)
3. Exit
Enter your option number: 1
How many entries are being entered? 3

Entry 1 -----
Enter a date (MM/DD/YYYY): 10/30/2025
Enter the numerical value to convert: 32

Select the spreadsheet type for conversion:
1. Fahrenheit to Celsius
2. Pounds to Kilograms
3. Inches to Centimeters
Enter spreadsheet option (1-3): 1

The following was saved at 2025-11-30 09:56:52.394423:
Date: 10/30/2025
Original Value: 32.0
Converted Value: 0.0

Entry 2 -----
Enter a date (MM/DD/YYYY): 10/30/2025
Enter the numerical value to convert: 1

Select the spreadsheet type for conversion:
1. Fahrenheit to Celsius
2. Pounds to Kilograms
3. Inches to Centimeters
Enter spreadsheet option (1-3):
= RESTART: C:/Users/BlacK/OneDrive/Documents/PythonStuff/3.3 Guided Practice Int
roduction to Functions.py
Line1234
This is the output from main.
This is the output of myFirstFunction().
This is the second output from main.
>>>
```

Light rain
Today

Search

2.



The screenshot shows a Python IDE with two windows. The left window, titled 'myThirdFunction().py', contains the following code:

```
print("Gerbla7878")
# This program demonstrates how to pass a parameter to a function and return a v

def myThirdFunction(var1):
    # This function's task is to add 1 to the value passed to it, and to return
    num1 = var1 + 1
    return num1

def main():
    print("This is the output from main.")
    var1 = int(input("Please enter a number: "))
    newNum = myThirdFunction(var1)
    print(f"This is the second output from main showing that {var1} plus 1 is {n

main()
```

The right window, titled 'IDLE Shell 3.14.0', shows the execution output:

```
Converted Value: 0.0

Entry 2 -----
Enter a date (MM/DD/YYYY): 10/30/2025
Enter the numerical value to convert: 1

Select the spreadsheet type for conversion:
1. Fahrenheit to Celsius
2. Pounds to Kilograms
3. Inches to Centimeters
Enter spreadsheet option (1-3):
= RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/3.3 Guided Practice Int
roduction to Functions.py
Lisa1234
This is the output from main.
This is the output of myFirstFunction().
This is the second output from main.

>>>
= RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/3.3 Guided Practice Int
roduction to Functions.py
Lisa1234
This is the output from main.
This is the output of myFirstFunction().
This is the second output from main.
Lisa1234
This is the output from main.
Please enter a number: 5
This is the output of mySecondFunction().
I added 1 to 5 and the result is 6
This is the second output from main.

>>>
== RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/myThirdFunction().py =
Gerbla7878
== RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/myThirdFunction().py =
Gerbla7878
This is the output from main.
Please enter a number: 5
This is the second output from main showing that 5 plus 1 is 6.

>>>
```

1. If the `int` function is not used, the value entered by the user will be stored as a string rather than a number. This means Python will treat the input as text
2. Yes. Any function can be written to accept a parameter and return a value.
3. Advantage of using a function like `myThirdFunction()` is that it makes your program easier to reuse and maintain.

4.

The screenshot shows a Python IDE with two windows. The left window, titled 'introductionToFunctions4.py', contains the following code:

```
print("Gerbla7878")
# This program demonstrates calling three functions and using parameters and ret

def myFirstFunction():
    print("This is the output from myFirstFunction.")

def mySecondFunction():
    print("This is the output from mySecondFunction.")

def myThirdFunction(var1):
    # Adds 1 to the value passed to it
    num1 = var1 + 1
    return num1

def main():
    print("This is the output from main.")

    # Ask for user input as an integer
    var1 = int(input("Please enter a number: "))

    # Call the first two functions
    myFirstFunction()
    mySecondFunction()

    # Call the third function and capture the returned value
    newNum = myThirdFunction(var1)

    print(f"This is the second output from main showing that {var1} plus 1 is {n

# Call main to start program
main()
```

The right window, titled 'IDLE Shell 3.14.0', shows the execution output:

```
3. Inches to Centimeters
Enter spreadsheet option (1-3):
= RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/3.3 Guided Practice Int
roduction to Functions.py
Lisa1234
This is the output from main.
This is the output of myFirstFunction().
This is the second output from main.

>>>
= RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/3.3 Guided Practice Int
roduction to Functions.py
Lisa1234
This is the output from main.
This is the output of myFirstFunction().
This is the second output from main.
Lisa1234
This is the output from main.
Please enter a number: 5
This is the output of mySecondFunction().
I added 1 to 5 and the result is 6
This is the second output from main.

>>>
== RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/myThirdFunction().py =
Gerbla7878
== RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/myThirdFunction().py =
Gerbla7878
This is the output from main.
Please enter a number: 5
This is the second output from main showing that 5 plus 1 is 6.

>>>
= RESTART: C:/Users/BlaQK/OneDrive/Documents/PythonStuff/introductionToFunctions
4.py
Gerbla7878
This is the output from main.
Please enter a number: 5
This is the output from myFirstFunction.
This is the output from mySecondFunction.
This is the second output from main showing that 5 plus 1 is 6.

>>>
```