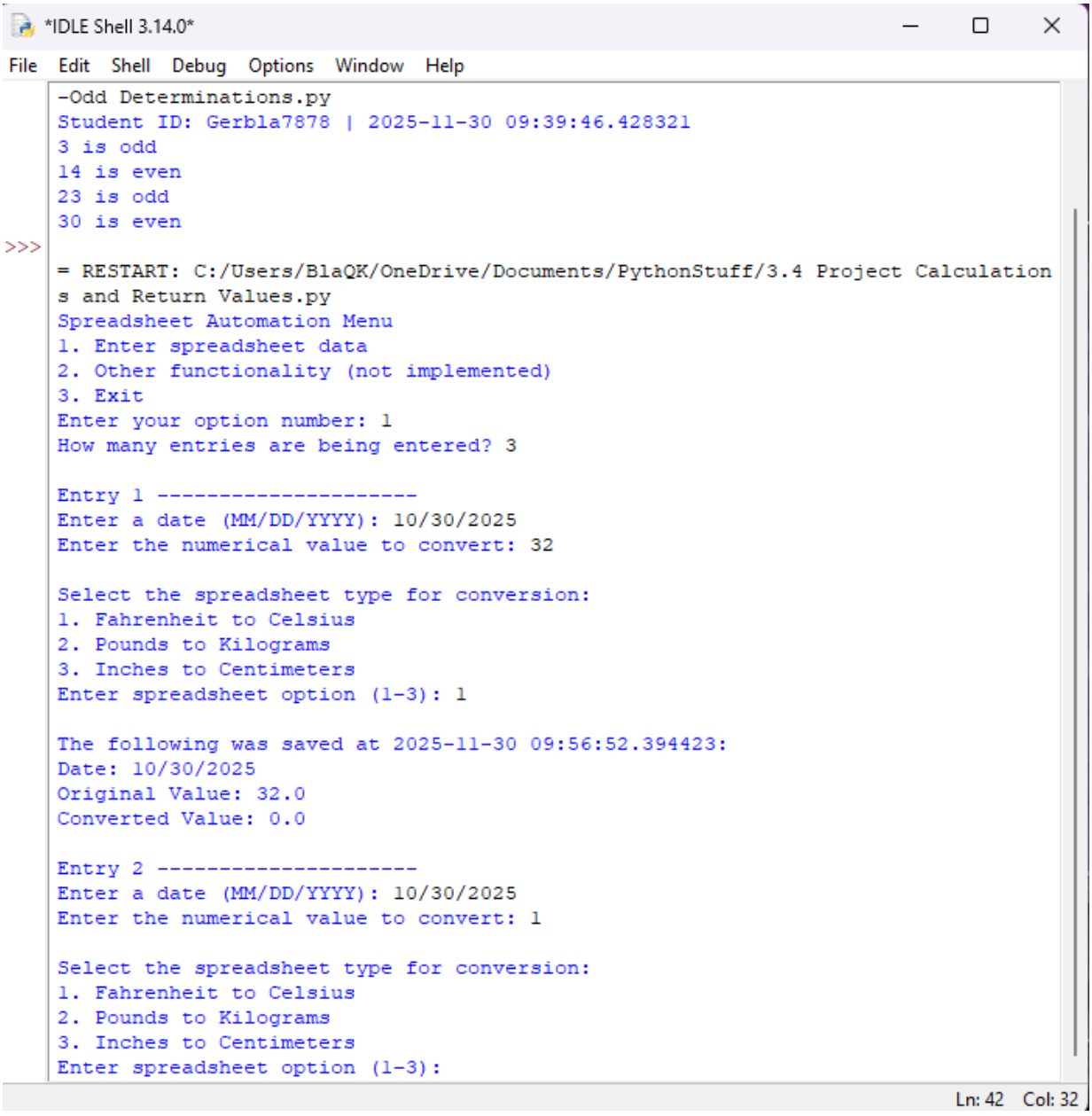
Gerald Blackwell

3.4 Project Calculations and Return Values



3.4 Project Calculations and Return Values.py - C:/Users/BlaQK/OneDrive/Documents/PythonStuff/3.4 Project Calculations and Return Values.py (3.14.0)

File Edit Format Run Options Window Help

```
# Name: Gerald Blackwell
# Date: 10/30/2025
# Description:
# This program converts user-entered data (temperature, weight, or rainfall)
# into different units and prints the saved results with timestamps.

from datetime import datetime


# Function: convertData
# Argument: data (float) - the numeric value to convert
# Return: float - the converted value based on spreadsheet type
def convertData(data):
    # Ask user which type of spreadsheet this conversion is for
    print("\nSelect the spreadsheet type for conversion:")
    print("1. Fahrenheit to Celsius")
    print("2. Pounds to Kilograms")
    print("3. Inches to Centimeters")

    sheetType = input("Enter spreadsheet option (1-3): ")

    if sheetType == "1":
        return (data - 32) * 5/9
    elif sheetType == "2":
        return data / 2.205
    elif sheetType == "3":
        return data * 2.54
    else:
        print("Invalid spreadsheet type. Returning original value.")
        return data


def getInput():
    # Ask how many entries the user wants to enter
    entryCount = int(input("How many entries are being entered? "))

    for i in range(entryCount):
        print(f"\nEntry {i+1} ----------------------")
        date = input("Enter a date (MM/DD/YYYY): ")
        value = float(input("Enter the numerical value to convert: "))

        # Calling convertData(data)
        # Function name: convertData
        # Argument: float (the value to convert)
        # Return value: float (converted value)
        convertedValue = convertData(value)

        print(f"\nThe following was saved at {datetime.now()}:")
        print("Date:", date)
        print("Original Value:", value)
        print("Converted Value:", convertedValue)


# ---------------- Main Menu Logic ----------------
print("Spreadsheet Automation Menu")
print("1. Enter spreadsheet data")
print("2. Other functionality (not implemented)")
print("3. Exit")

option = input("Enter your option number: ")

# Check selected option
if option == "1":
    getInput()
else:
    print("Error: The chosen functionality is not implemented yet")
```