

Course Name	ITD 2313 – Script Programming
Instructor	Andy Tripp
Student Name	Timothy Obinda
Due date	11/09/2025
Grade	Put grade earned here
Grading Comments	Put instructor comments here

## INSTRUCTIONS FOR THE EXERCISE

You should always read the instructions in full. It is best to do a full read through before starting the assignment. Each screenshot needs to be appropriately labeled.

In this instruction, you are given information about a specific project in the text. In some cases, specific instructions for a particular project will be given. There also may be specific test data given. All specific instructions should be followed. When test data is given, screen shots must include that test data, and those results will need to be grabbed via screen shot. All screen shots will go into your submission document.

Some advice, copy this instruction set into your submission document and then put the screen shots under each numbered task. This will take care of making the appropriate labels for you. Each individual book page in the instructions should be in a different screen shot. For any single book page, you may have all the numbered tasks on that page to be in a single screen shot.

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Project # 1

Special Instructions:

1. This project is to be done in a python program file. The file needs to be submitted as part of the submission for this assignment. Place

the program file into the zip file that is submitted for this assignment.

```
*taxformwithgui.py - C:\Users\student\Desktop\taxformwithgui.py (3.13.7)*
File Edit Format Run Options Window Help
"""
File: taxformwithgui.py
GUI Tax Calculator
"""

import random
from breezypythongui import EasyFrame

class TaxCalculator(EasyFrame):

    def __init__(self):
        EasyFrame.__init__(self, title="Tax Calculator")

        self.addLabel(text="Gross income", row=0, column=0)
        self.incomeField = self.addFloatField(0.0, row=0, column=1)

        self.addLabel(text="Dependents", row=1, column=0)
        self.depField = self.addIntegerField(0, row=1, column=1)

        self.addButton(text="Compute", row=2, column=0, columnSpan=2,
                      command=self.computeTax)

        self.addLabel(text="Total tax", row=3, column=0)
        self.taxField = self.addFloatField(0.0, row=3, column=1,
                                         state="readonly")

    def computeTax(self):
        income = self.incomeField.getNumber()
        dependents = self.depField.getNumber()

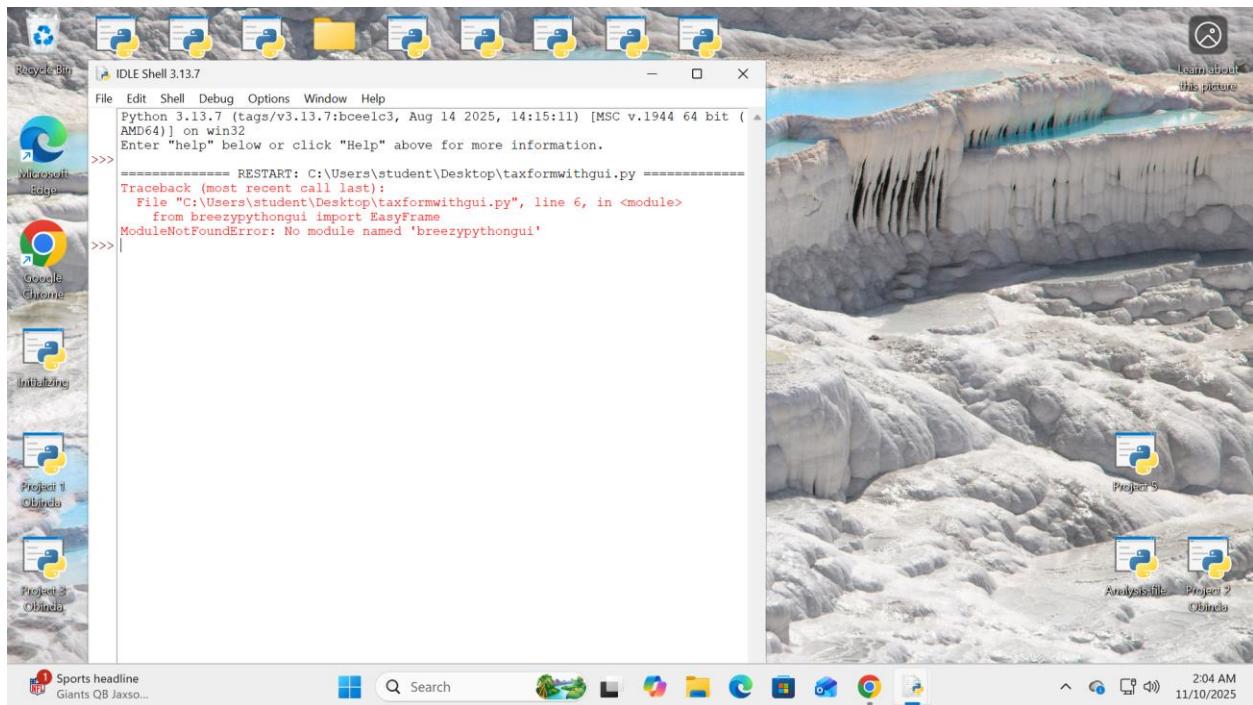
        # Formula for Tax Calculator

        tax = (income * 0.12) - (dependents * 600)
        if tax < 0:
            tax = 0.0

        self.taxField.setNumber(round(tax, 2))

    def main():
        TaxCalculator().mainloop()

Ln: 3 Col: 18
NO - CAR Video highlight 2:03 AM 11/10/2025
```



The screenshot shows a Windows desktop environment. In the center, there is a terminal window titled "IDLE Shell 3.13.7". The window displays Python code and an error message:

```
File Edit Shell Debug Options Window Help
Python 3.13.7 (tags/v3.13.7:bceelc3, Aug 14 2025, 14:15:11) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.

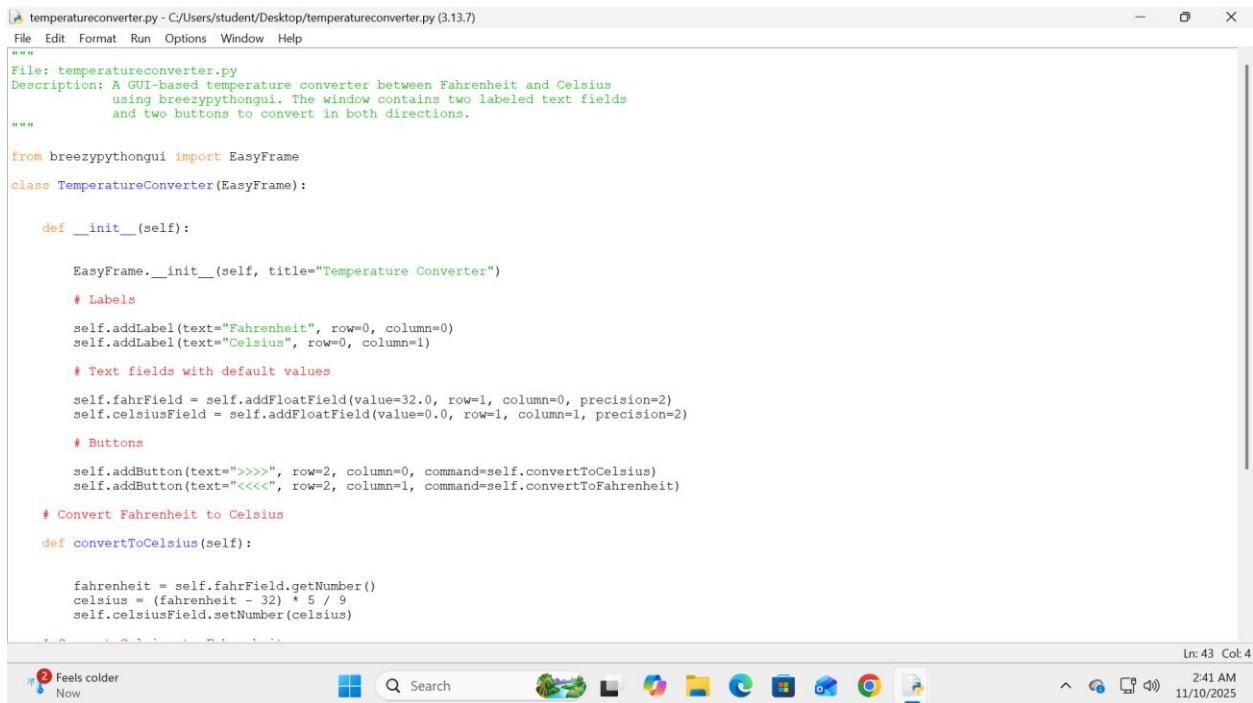
>>> ===== RESTART: C:\Users\student\Desktop\taxformwithgui.py =====
Traceback (most recent call last):
  File "C:\Users\student\Desktop\taxformwithgui.py", line 6, in <module>
    from breezypythongui import EasyFrame
ModuleNotFoundError: No module named 'breezypythongui'
```

The desktop background features a photograph of the Pamukkale travertine terraces in Turkey. On the left side of the screen, there is a vertical taskbar containing icons for various applications: Recycle Bin, Microsoft Edge, Google Chrome, and several Python-related projects named "Project 1 Obinola", "Project 2 Obinola", "Analysisfile", and "Project 3 Obinola". At the bottom of the screen, the Windows taskbar shows the date and time (11/10/2025, 2:04 AM), along with icons for the Start button, Task View, and system notifications.

## Project # 3

### Special Instructions:

1. This project is to be done in a python program file. The file needs to be submitted as part of the submission for this assignment. Place the program file into the zip file that is submitted for this assignment.



The screenshot shows a Windows desktop environment. In the center is a code editor window titled "temperatureconverter.py - C:/Users/student/Desktop/temperatureconverter.py (3.13.7)". The window contains Python code for a temperature converter using the breezypythongui library. The code includes imports, class definitions, and methods for conversion between Fahrenheit and Celsius. At the bottom of the code editor, there is a status bar showing "Ln: 43 Col: 4". Below the code editor is the Windows taskbar, which includes icons for File Explorer, Edge browser, and other system applications. The system tray shows a weather icon indicating "Feels colder Now". The system clock in the bottom right corner shows "2:41 AM 11/10/2025".

```
temperatureconverter.py - C:/Users/student/Desktop/temperatureconverter.py (3.13.7)
File Edit Format Run Options Window Help
"""
File: temperatureconverter.py
Description: A GUI-based temperature converter between Fahrenheit and Celsius
    using breezypythongui. The window contains two labeled text fields
    and two buttons to convert in both directions.
"""

from breezypythongui import EasyFrame
class TemperatureConverter(EasyFrame):

    def __init__(self):
        EasyFrame.__init__(self, title="Temperature Converter")
        # Labels
        self.addLabel(text="Fahrenheit", row=0, column=0)
        self.addLabel(text="Celsius", row=0, column=1)
        # Text fields with default values
        self.fahrField = self.addFloatField(value=32.0, row=1, column=0, precision=2)
        self.celsiusField = self.addFloatField(value=0.0, row=1, column=1, precision=2)
        # Buttons
        self.addButton(text=">>>", row=2, column=0, command=self.convertToCelsius)
        self.addButton(text="<<<", row=2, column=1, command=self.convertToFahrenheit)
        # Convert Fahrenheit to Celsius
    def convertToCelsius(self):
        fahrenheit = self.fahrField.getNumber()
        celsius = (fahrenheit - 32) * 5 / 9
        self.celsiusField.setNumber(celsius)

        Feels colder
        Now
        Search
        2:41 AM
        11/10/2025
```

