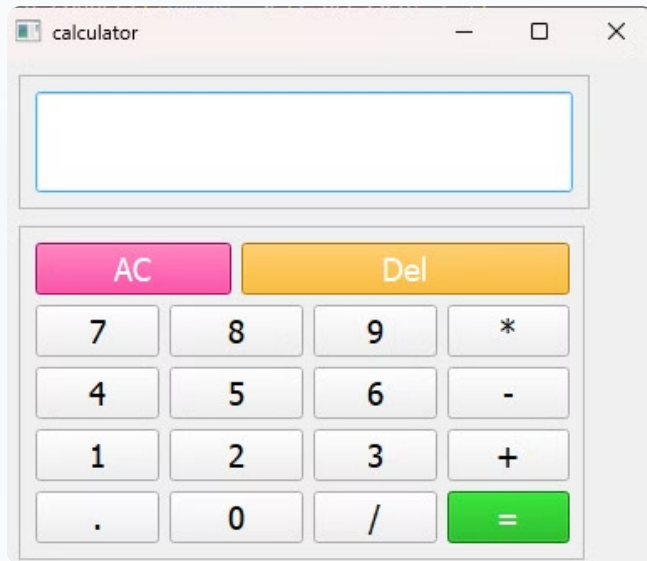
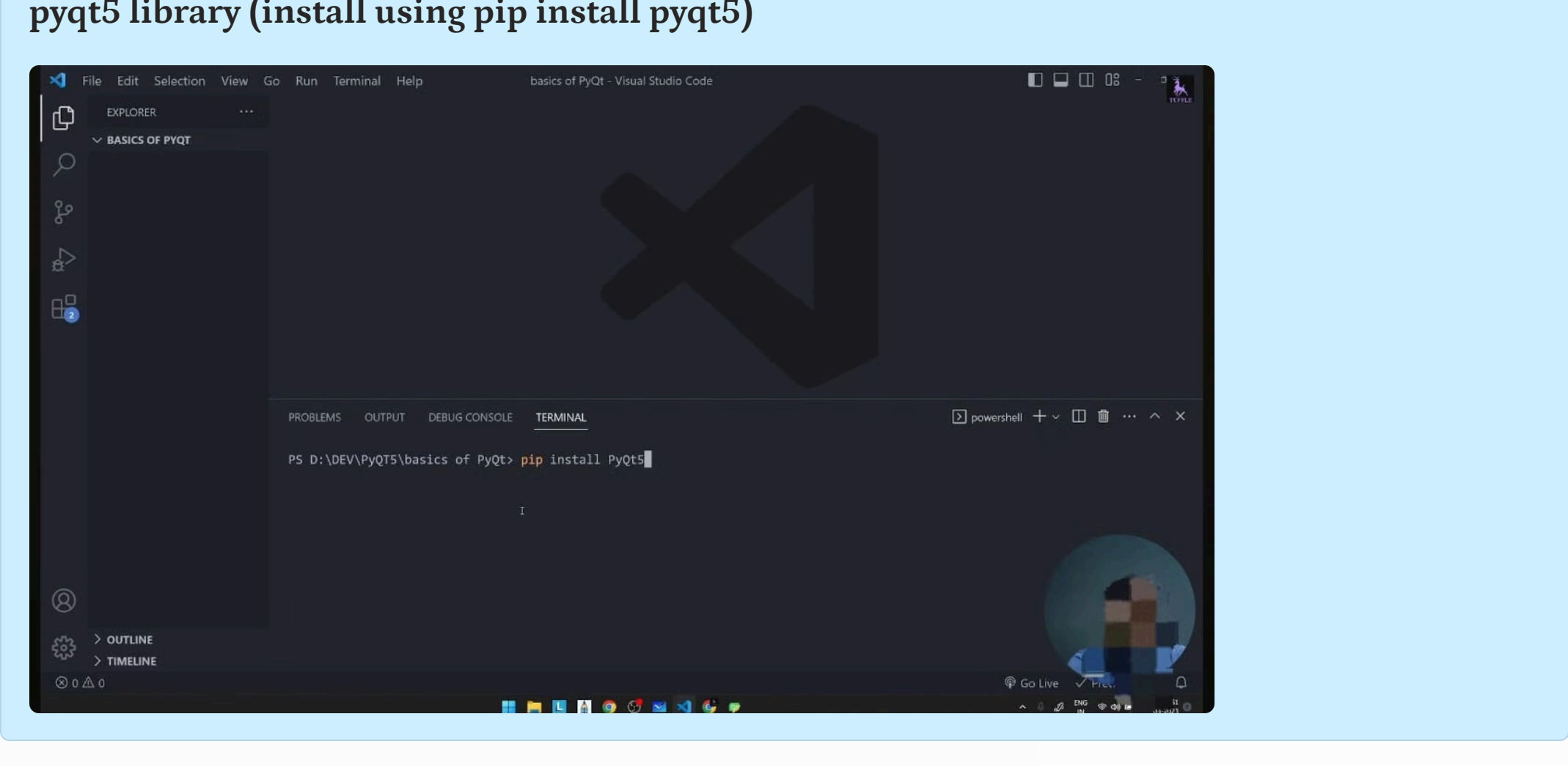


NextHikes IT Solutions Project 1: Building Basic Calculator

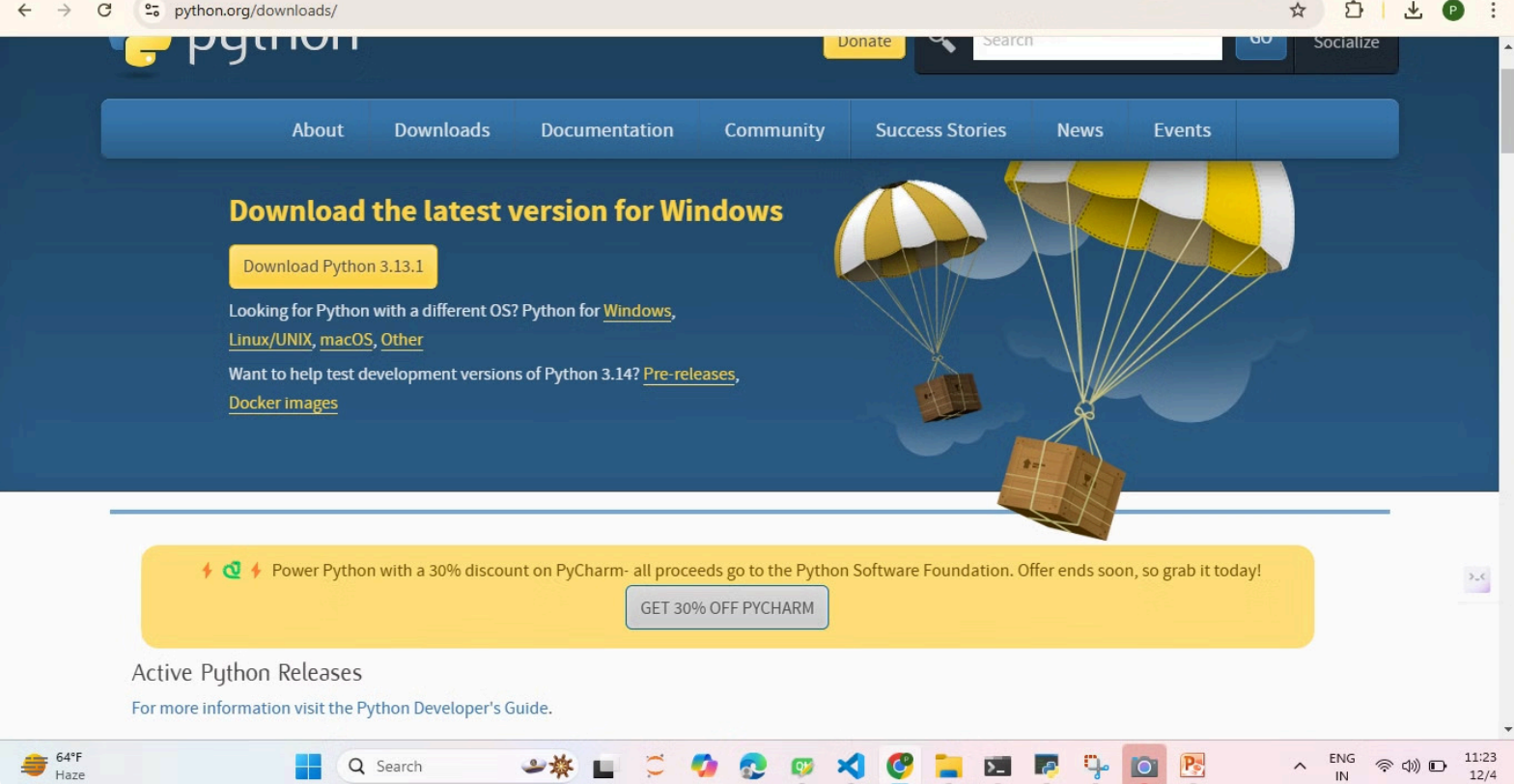
By Priyanka Mathur



Step 1: Install PyQt5 and python version 3.13.1



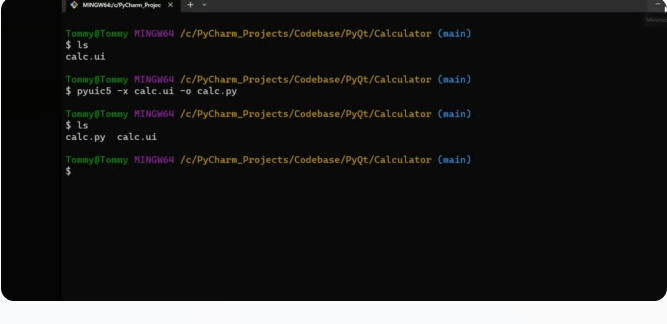
- This project is a simple calculator application built using Python and PyQt5



- ▼ Download the python here and make the calculator with the help of pyqt5 and python

- ▼ Calculator Logic

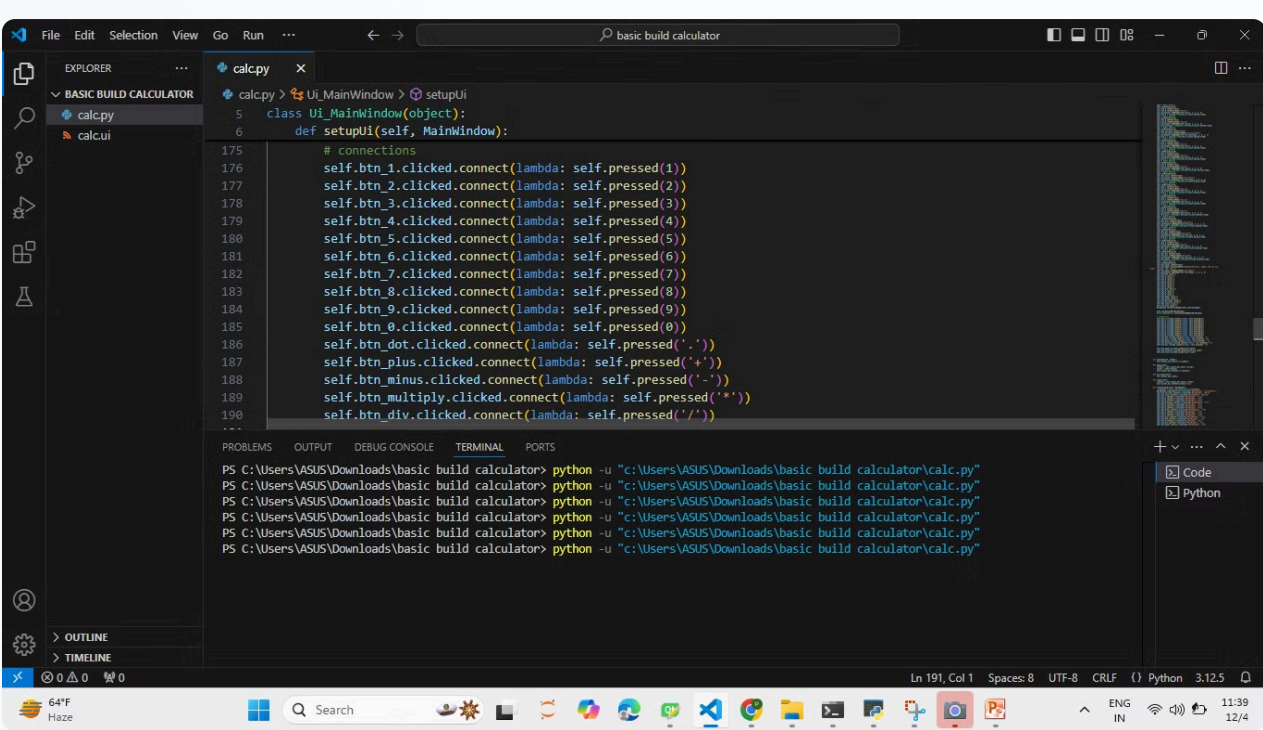
convert the file calc.ui into calc.py



1

Operation Selection

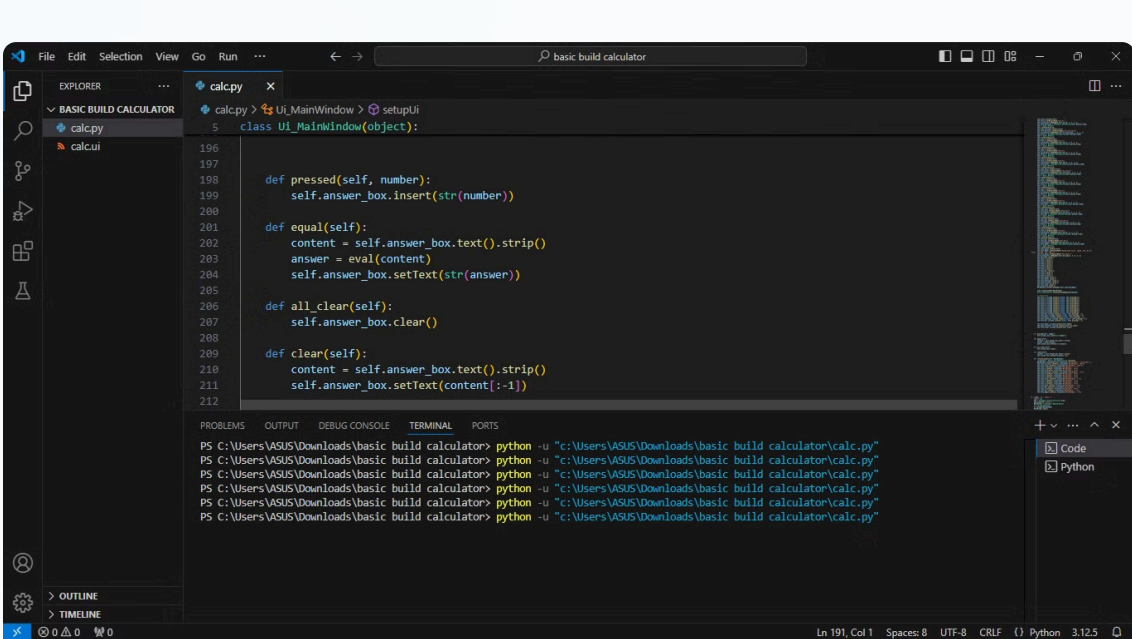
Determine the desired operation based on the button clicked, such as addition, subtraction, multiplication, or division.



2

Function define for the operation

here define function for operation



3

All button function here

def pressed(self, number):

self.answer_box.insert(str(number))

def equal(self):

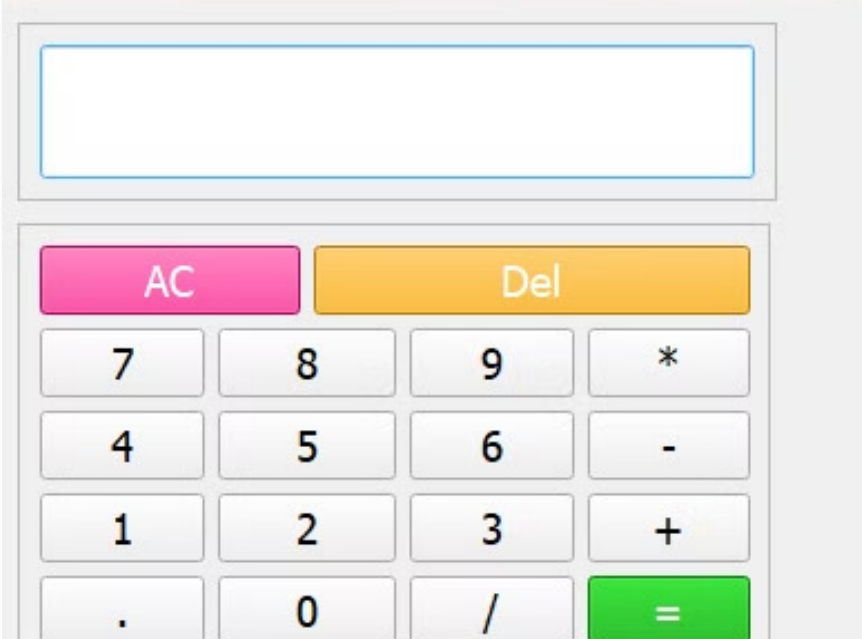
content = self.answer_box.text().strip()

answer = eval(content)

self.answer_box.setText(str(answer))

def all_clear(self):

self.answer_box.clear()



def clear(self):

content = self.answer_box.text().strip()

self.answer_box.setText(content[:-1])

4

Error Handling

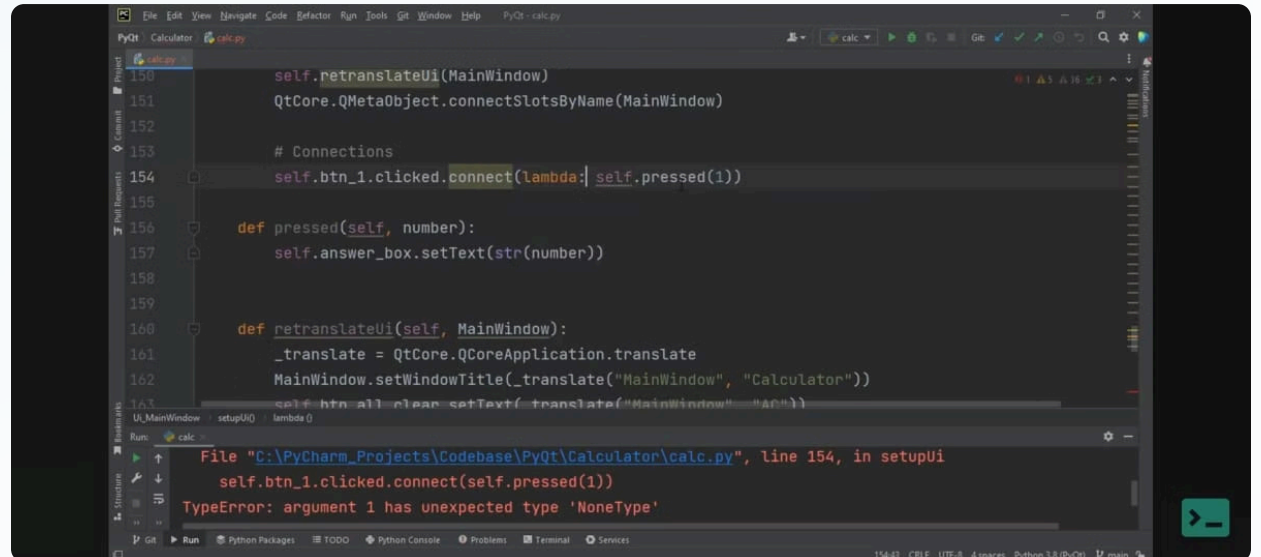
1

Invalid Input

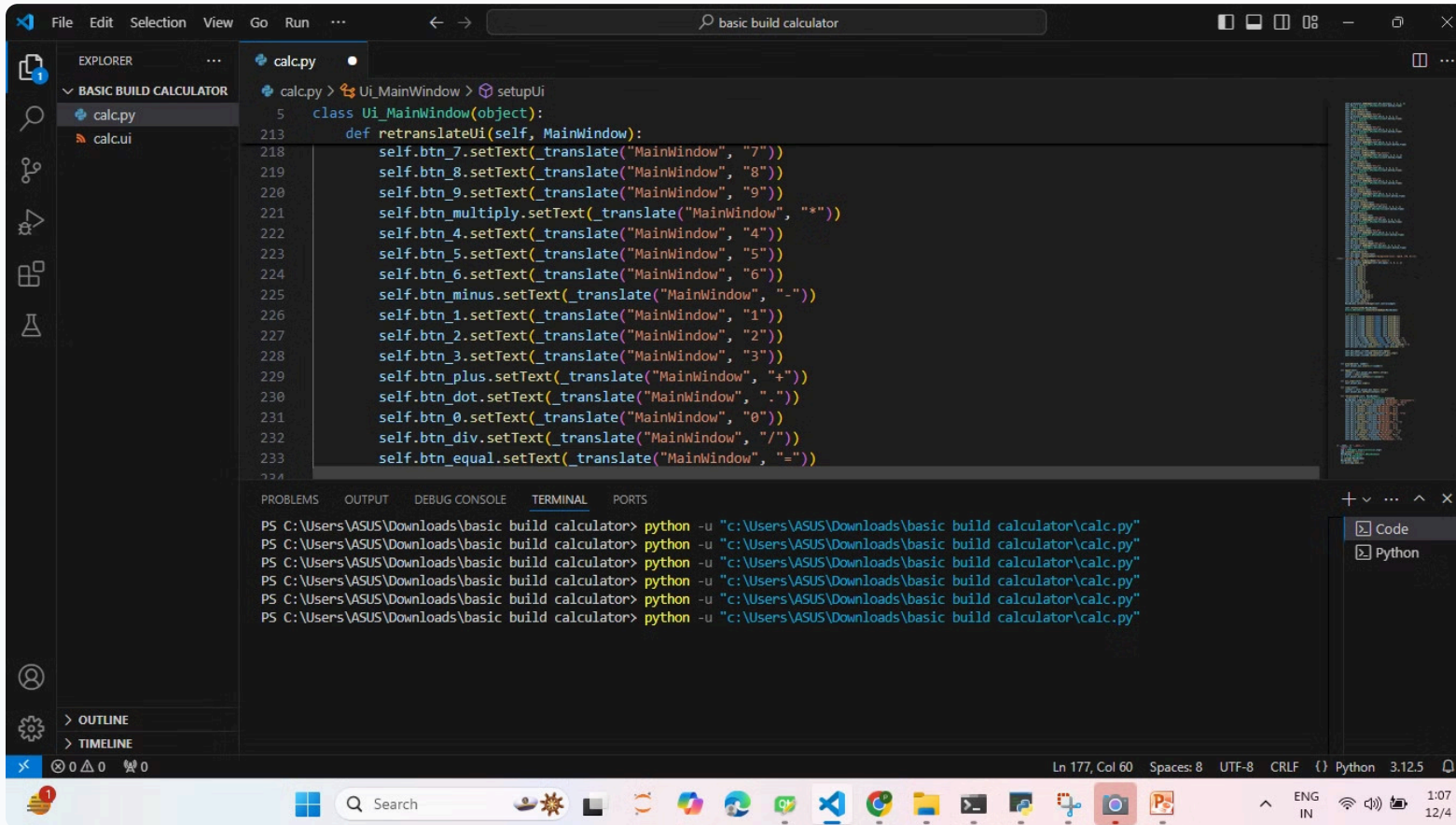
```
self.btn_1.clicked.connect(self.pressed(1))
```

solution is that the write the lambda function here

```
self.btn_1.clicked.connect(lambda: self.pressed(1))
```



save and run code

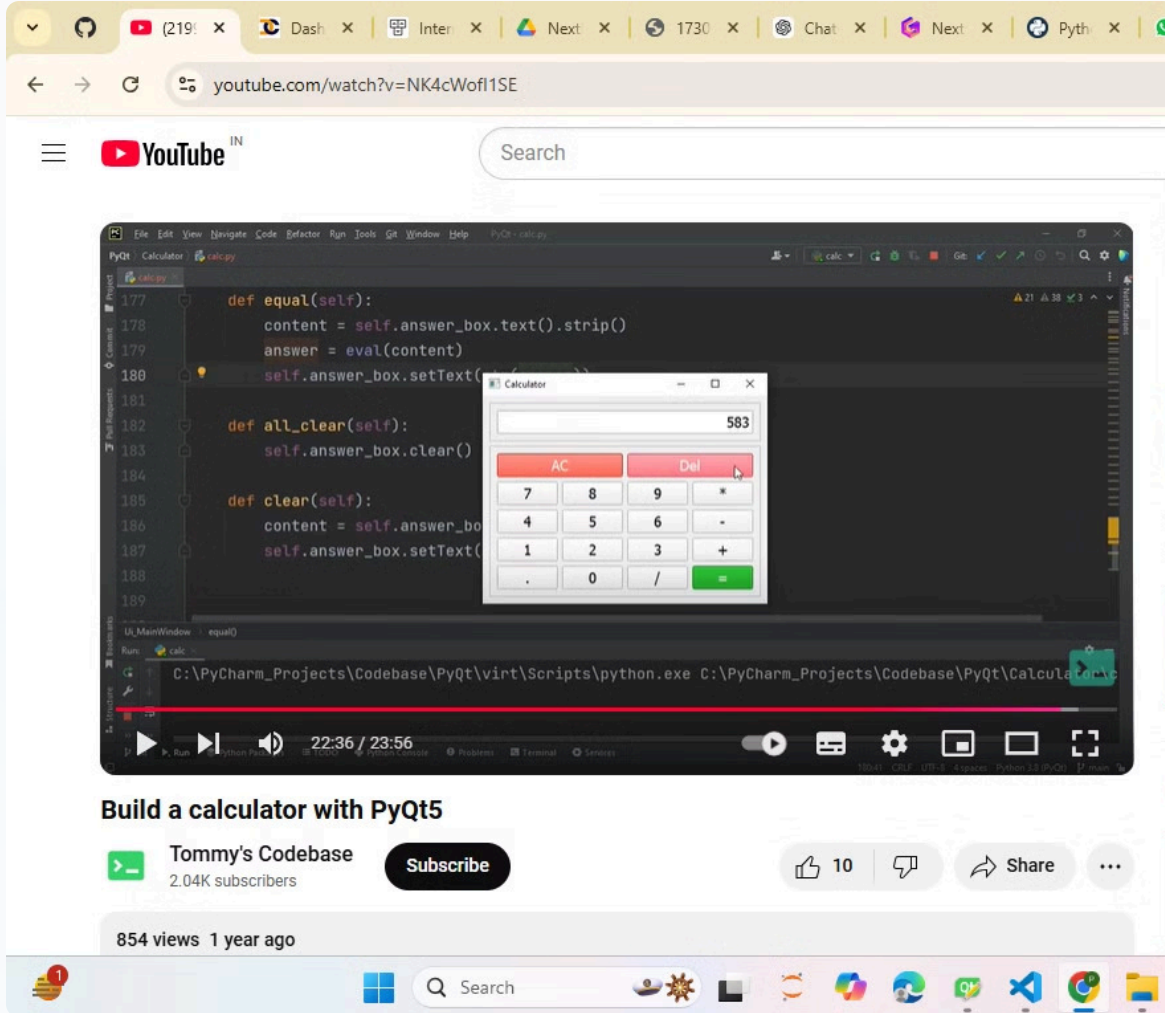


The screenshot displays the Visual Studio Code interface. The Explorer panel on the left shows a project named 'BASIC BUILD CALCULATOR' with files 'calc.py' and 'calc.ui'. The main editor window shows the 'calc.py' file, which contains a Python class 'Ui_MainWindow' with a 'setupUi' method. The method defines a 'retranslateUi' function that sets the text of various buttons (btn_7 through btn_equal) using the 'translate' function. The terminal window at the bottom shows the command 'python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"' being executed multiple times.

```
5 class Ui_MainWindow(object):
213     def retranslateUi(self, MainWindow):
218         self.btn_7.setText(_translate("MainWindow", "7"))
219         self.btn_8.setText(_translate("MainWindow", "8"))
220         self.btn_9.setText(_translate("MainWindow", "9"))
221         self.btn_multiply.setText(_translate("MainWindow", "*"))
222         self.btn_4.setText(_translate("MainWindow", "4"))
223         self.btn_5.setText(_translate("MainWindow", "5"))
224         self.btn_6.setText(_translate("MainWindow", "6"))
225         self.btn_minus.setText(_translate("MainWindow", "-"))
226         self.btn_1.setText(_translate("MainWindow", "1"))
227         self.btn_2.setText(_translate("MainWindow", "2"))
228         self.btn_3.setText(_translate("MainWindow", "3"))
229         self.btn_plus.setText(_translate("MainWindow", "+"))
230         self.btn_dot.setText(_translate("MainWindow", "."))
231         self.btn_0.setText(_translate("MainWindow", "0"))
232         self.btn_div.setText(_translate("MainWindow", "/"))
233         self.btn_equal.setText(_translate("MainWindow", "="))
234
```

```
PS C:\Users\ASUS\Downloads\basic build calculator> python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"
PS C:\Users\ASUS\Downloads\basic build calculator> python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"
PS C:\Users\ASUS\Downloads\basic build calculator> python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"
PS C:\Users\ASUS\Downloads\basic build calculator> python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"
PS C:\Users\ASUS\Downloads\basic build calculator> python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"
PS C:\Users\ASUS\Downloads\basic build calculator> python -u "c:\Users\ASUS\Downloads\basic build calculator\calc.py"
```

image the calculator



The screenshot shows a YouTube video player with a browser window at the top. The browser tabs include YouTube, Dash, Inter, Next, 1730, Chat, Next, and Pyth. The address bar shows the URL `youtube.com/watch?v=NK4cWof1SE`. The YouTube interface includes the logo, a search bar, and a video player. The video player displays a PyCharm IDE window titled "PyQt - Calculator" with the following Python code:

```
177 def equal(self):
178     content = self.answer_box.text().strip()
179     answer = eval(content)
180     self.answer_box.setText(str(answer))
181
182 def all_clear(self):
183     self.answer_box.clear()
184
185 def clear(self):
186     content = self.answer_box.text()
187     self.answer_box.setText(content[:-1])
188
189
```

Overlaid on the IDE is a small "Calculator" window with a display showing "583". The calculator has buttons for AC, Del, 7, 8, 9, *, 4, 5, 6, -, 1, 2, 3, +, ., 0, /, and =. The video player shows the video is at 22:36 / 23:56. Below the video, the title "Build a calculator with PyQt5" is displayed, along with the channel name "Tommy's Codebase" (2.04K subscribers) and a "Subscribe" button. The video has 10 likes and a "Share" button. The video description area shows "854 views 1 year ago". The Windows taskbar is visible at the bottom with the search bar and various application icons.

important links to build the calculator

install vs code from code with harry <https://www.youtube.com/@CodeWithHarry>

build the calculator with pyqt5 from tommy's codebase https://www.youtube.com/@tommys_codebase

python download <https://www.python.org/downloads/>

pyqt5 quick guide <https://www.youtube.com/@tech-hamsters>

Thank
you