



Seminario de Algoritmia

CLAVE: I59556

NRC: 59556

2022B

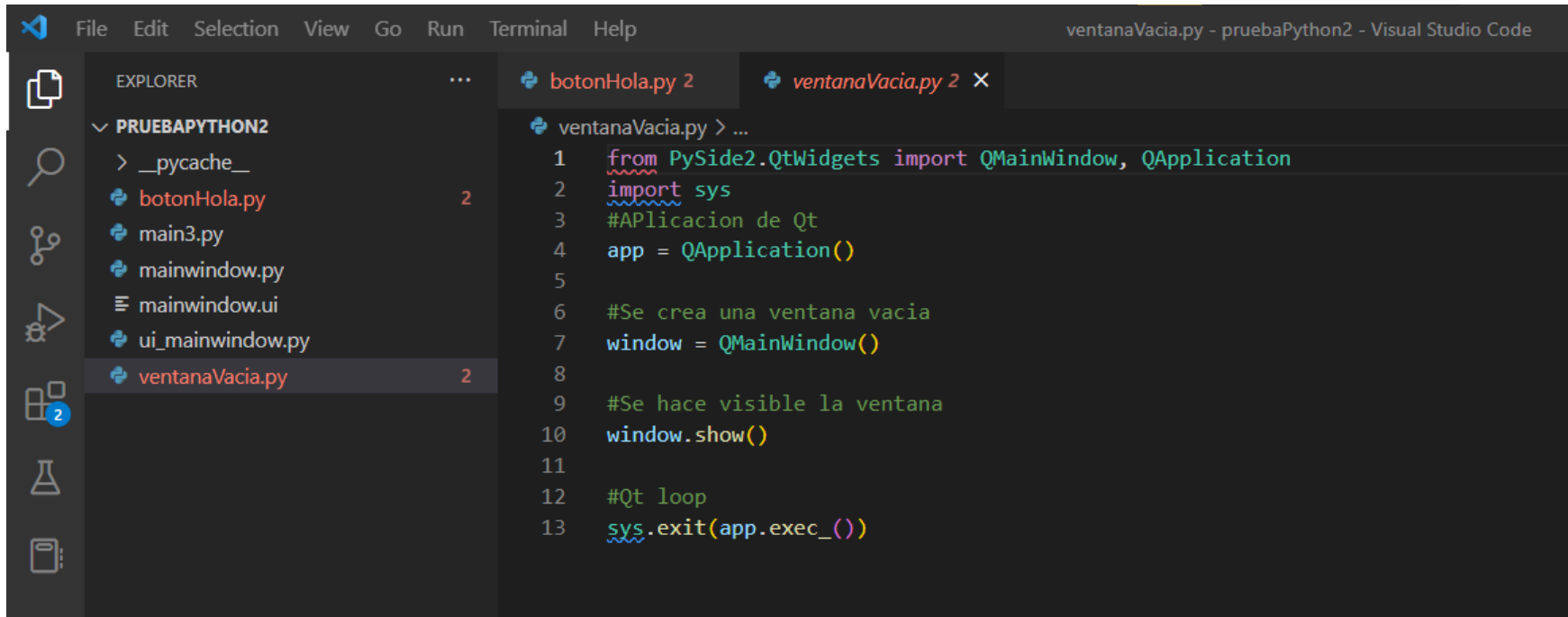
D14

Interfaz 2

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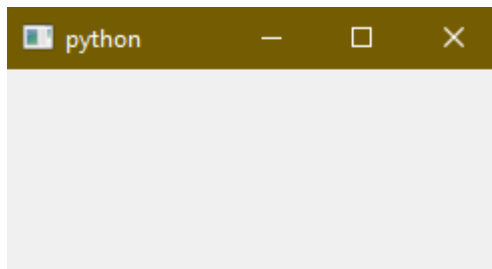
Script para crear una ventana vacía:



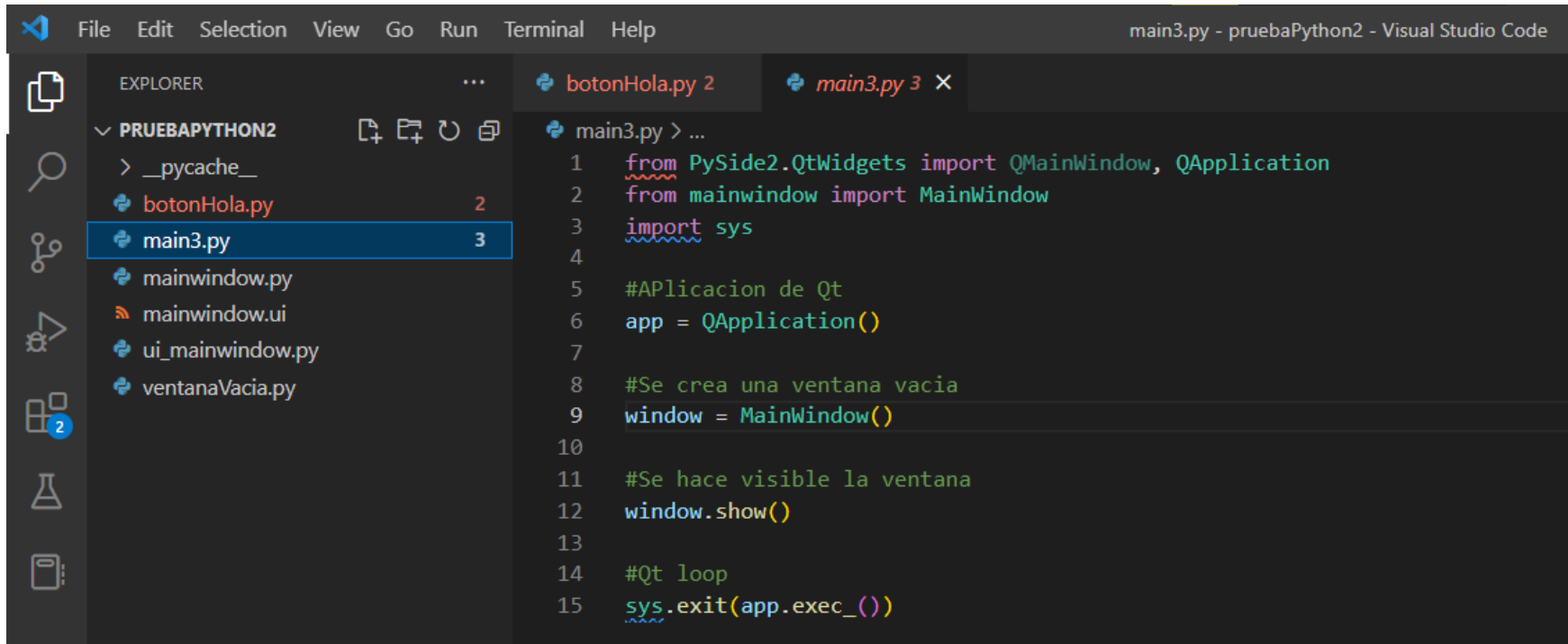
The screenshot shows the Visual Studio Code interface with a file explorer on the left and a code editor on the right. The file explorer shows a project named 'PRUEBAPYTHON2' with several files, including 'ventanaVacía.py' which is selected. The code editor displays the following Python code:

```
1 from PySide2.QtWidgets import QMainWindow, QApplication
2 import sys
3 #Aplicacion de Qt
4 app = QApplication()
5
6 #Se crea una ventana vacia
7 window = QMainWindow()
8
9 #Se hace visible la ventana
10 window.show()
11
12 #Qt loop
13 sys.exit(app.exec_())
```

Ventana resultante:



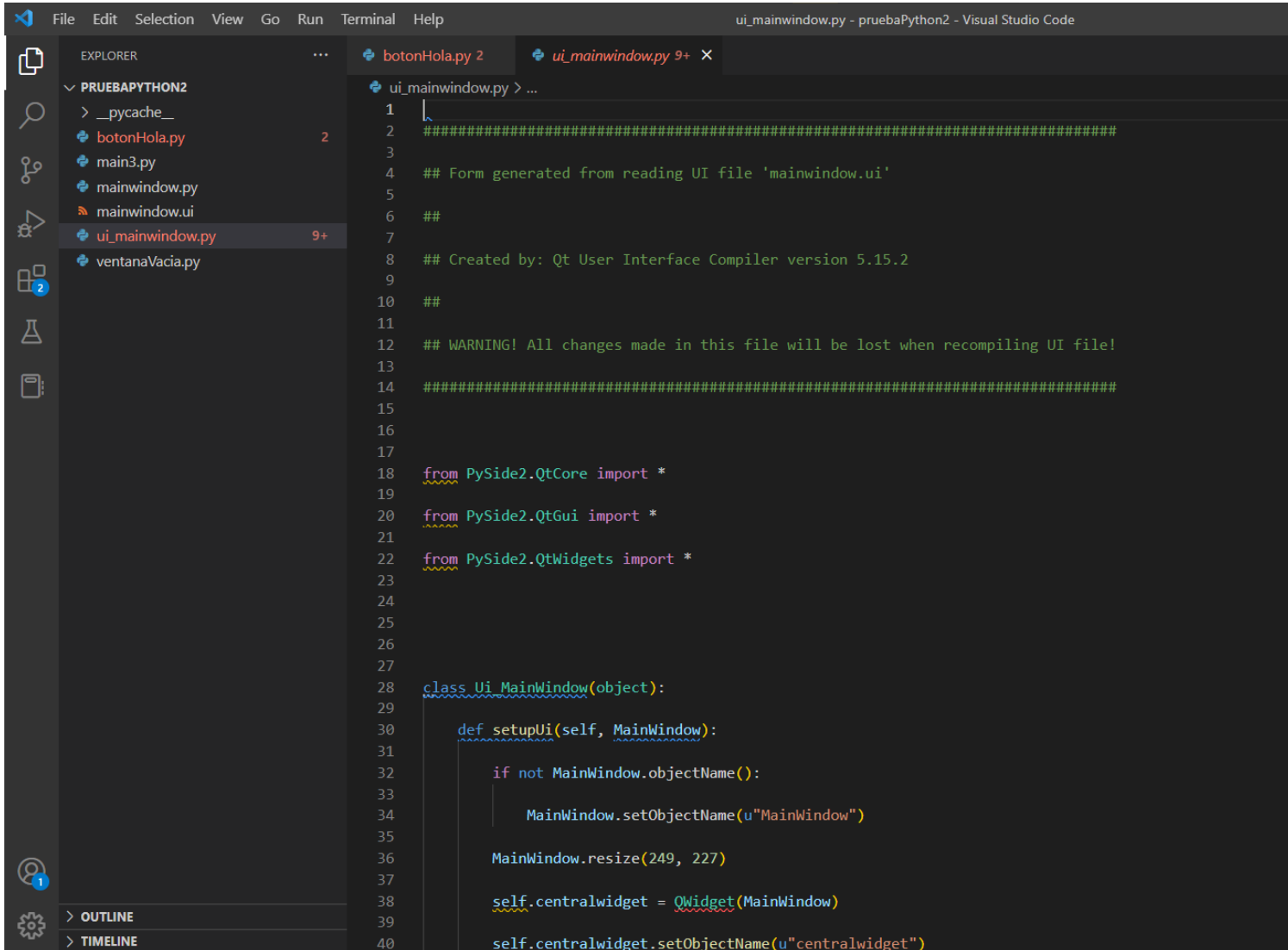
Script para meter la interfaz creada en la ventana vacía:



The image shows a screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar indicates the file is 'main3.py - pruebaPython2 - Visual Studio Code'. The Explorer sidebar on the left shows a project named 'PRUEBAPYTHON2' with files: '__pycache__', 'botonHola.py' (2), 'main3.py' (3), 'mainwindow.py', 'mainwindow.ui', 'ui_mainwindow.py', and 'ventanaVacía.py'. The 'main3.py' file is selected. The main editor area shows the following Python code:

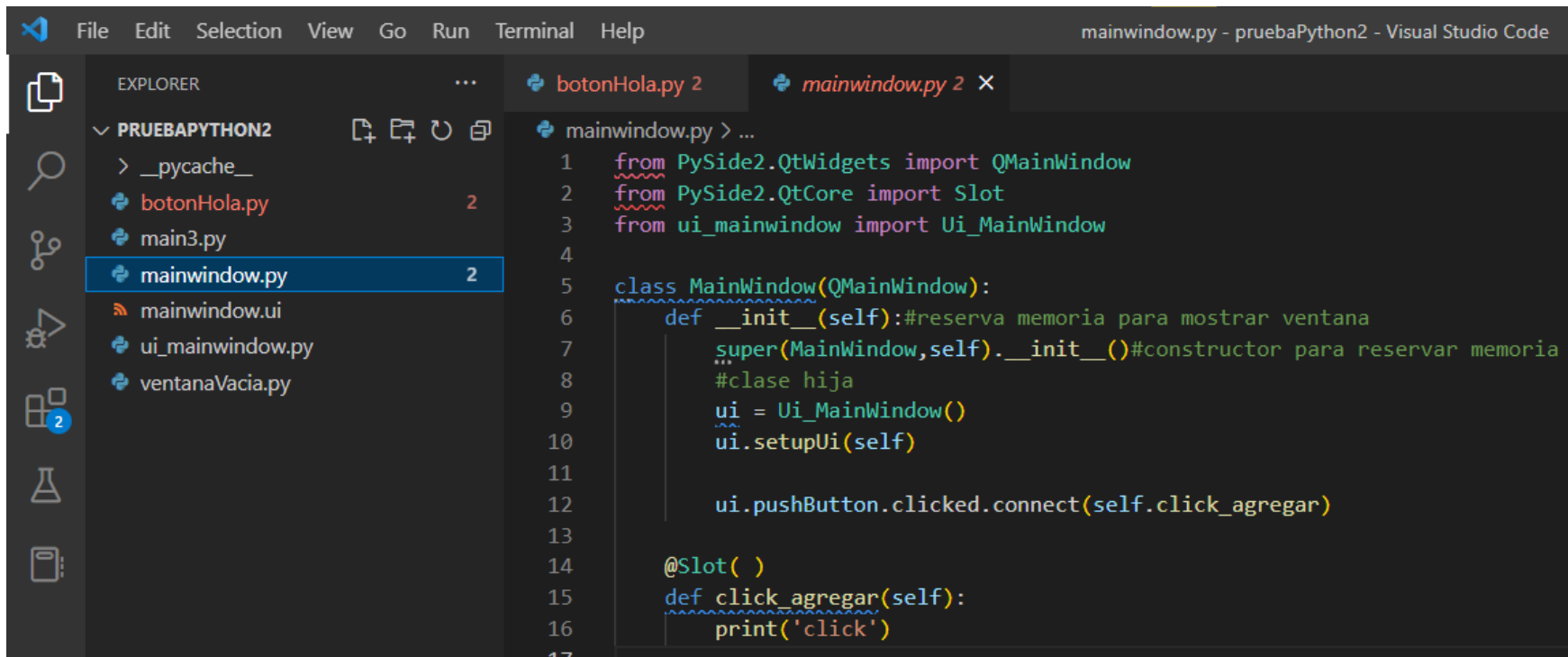
```
1 from PySide2.QtWidgets import QMainWindow, QApplication
2 from mainwindow import MainWindow
3 import sys
4
5 #APlicacion de Qt
6 app = QApplication()
7
8 #Se crea una ventana vacia
9 window = MainWindow()
10
11 #Se hace visible la ventana
12 window.show()
13
14 #Qt loop
15 sys.exit(app.exec_())
```

Código de interfaz gráfica convertido a Python:



```
1 |
2 | #####
3 |
4 | ## Form generated from reading UI file 'mainwindow.ui'
5 |
6 | ##
7 |
8 | ## Created by: Qt User Interface Compiler version 5.15.2
9 |
10 | ##
11 |
12 | ## WARNING! All changes made in this file will be lost when recompiling UI file!
13 |
14 | #####
15 |
16 |
17 |
18 | from PySide2.QtCore import *
19 |
20 | from PySide2.QtGui import *
21 |
22 | from PySide2.QtWidgets import *
23 |
24 |
25 |
26 |
27 |
28 | class Ui_MainWindow(object):
29 |
30 |     def setupUi(self, MainWindow):
31 |
32 |         if not MainWindow.setObjectName():
33 |
34 |             MainWindow.setObjectName(u"MainWindow")
35 |
36 |             MainWindow.resize(249, 227)
37 |
38 |             self.centralwidget = QWidget(MainWindow)
39 |
40 |             self.centralwidget.setObjectName(u"centralwidget")
```

Script para detectar los click en la interfaz e imprimir un mensaje:



The image shows a screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar indicates the active file is 'mainwindow.py - pruebaPython2 - Visual Studio Code'. The Explorer panel on the left shows a project named 'PRUEBAPYTHON2' with the following files: '__pycache__', 'botonHola.py', 'main3.py', 'mainwindow.py' (selected), 'mainwindow.ui', 'ui_mainwindow.py', and 'ventanaVacia.py'. The main editor area displays the code for 'mainwindow.py'.

```
mainwindow.py > ...
1  from PySide2.QtWidgets import QMainWindow
2  from PySide2.QtCore import Slot
3  from ui_mainwindow import Ui_MainWindow
4
5  class MainWindow(QMainWindow):
6      def __init__(self):#reserva memoria para mostrar ventana
7          super(MainWindow,self).__init__()#constructor para reservar memoria
8          #clase hija
9          ui = Ui_MainWindow()
10         ui.setupUi(self)
11
12         ui.pushButton.clicked.connect(self.click_agregar)
13
14         @Slot( )
15         def click_agregar(self):
16             print('click')
17
```

Comprobación de la palabra click en la interfaz:

