



Seminario de Algoritmia

CLAVE: I59556

NRC: 59556

2022B

D14

Instalar Pyside2, interfaz 1

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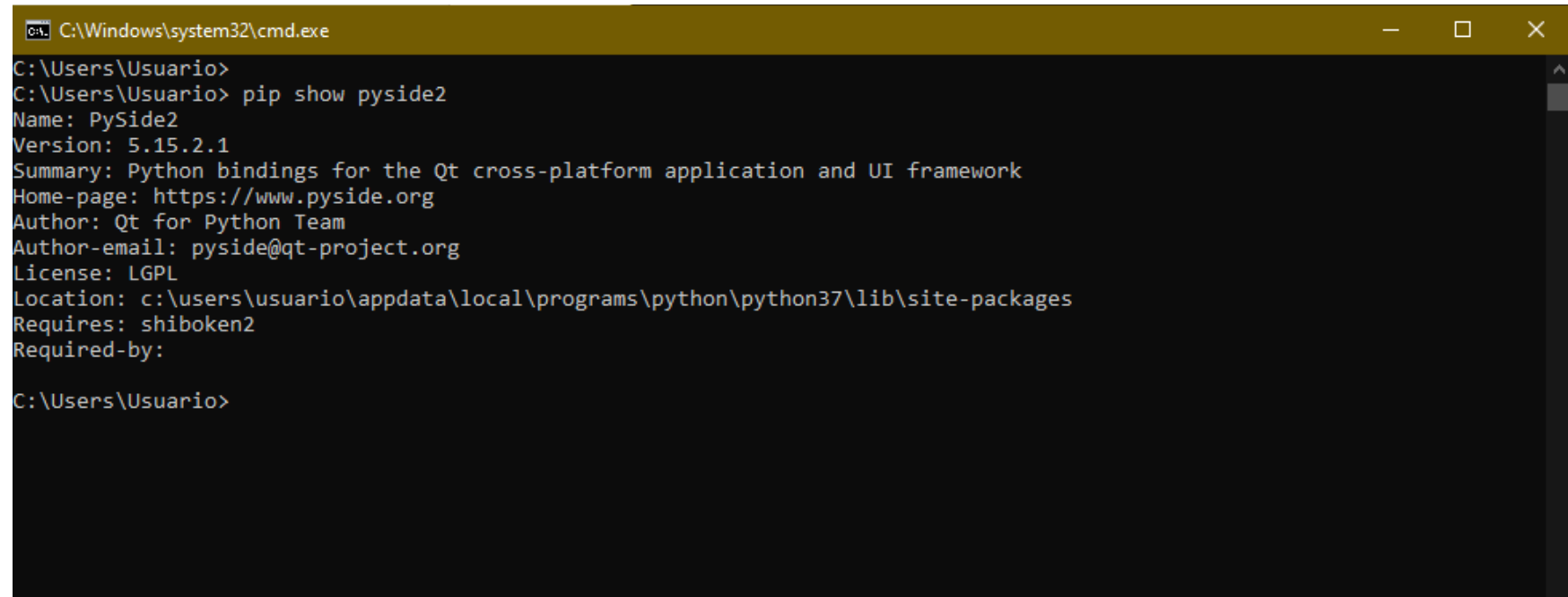
Instalación de Pyside:

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Versión 10.0.19043.2006]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Usuario>pip install pyside2
Collecting pyside2
  Downloading PySide2-5.15.2.1-5.15.2-cp35.cp36.cp37.cp38.cp39.cp310-none-win_amd64.whl (137.4 MB)
    |████████████████████████████████████████| 137.4 MB 4.4 kB/s
Collecting shiboken2==5.15.2.1
  Downloading shiboken2-5.15.2.1-5.15.2-cp35.cp36.cp37.cp38.cp39.cp310-none-win_amd64.whl (2.3 MB)
    |████████████████████████████████████████| 2.3 MB 38 kB/s
Installing collected packages: shiboken2, pyside2
Successfully installed pyside2-5.15.2.1 shiboken2-5.15.2.1
WARNING: You are using pip version 20.1.1; however, version 22.2.2 is available.
You should consider upgrading via the 'c:\users\usuario\appdata\local\programs\python\python37\python.exe -m pip install
--upgrade pip' command.

C:\Users\Usuario>
C:\Users\Usuario>
```

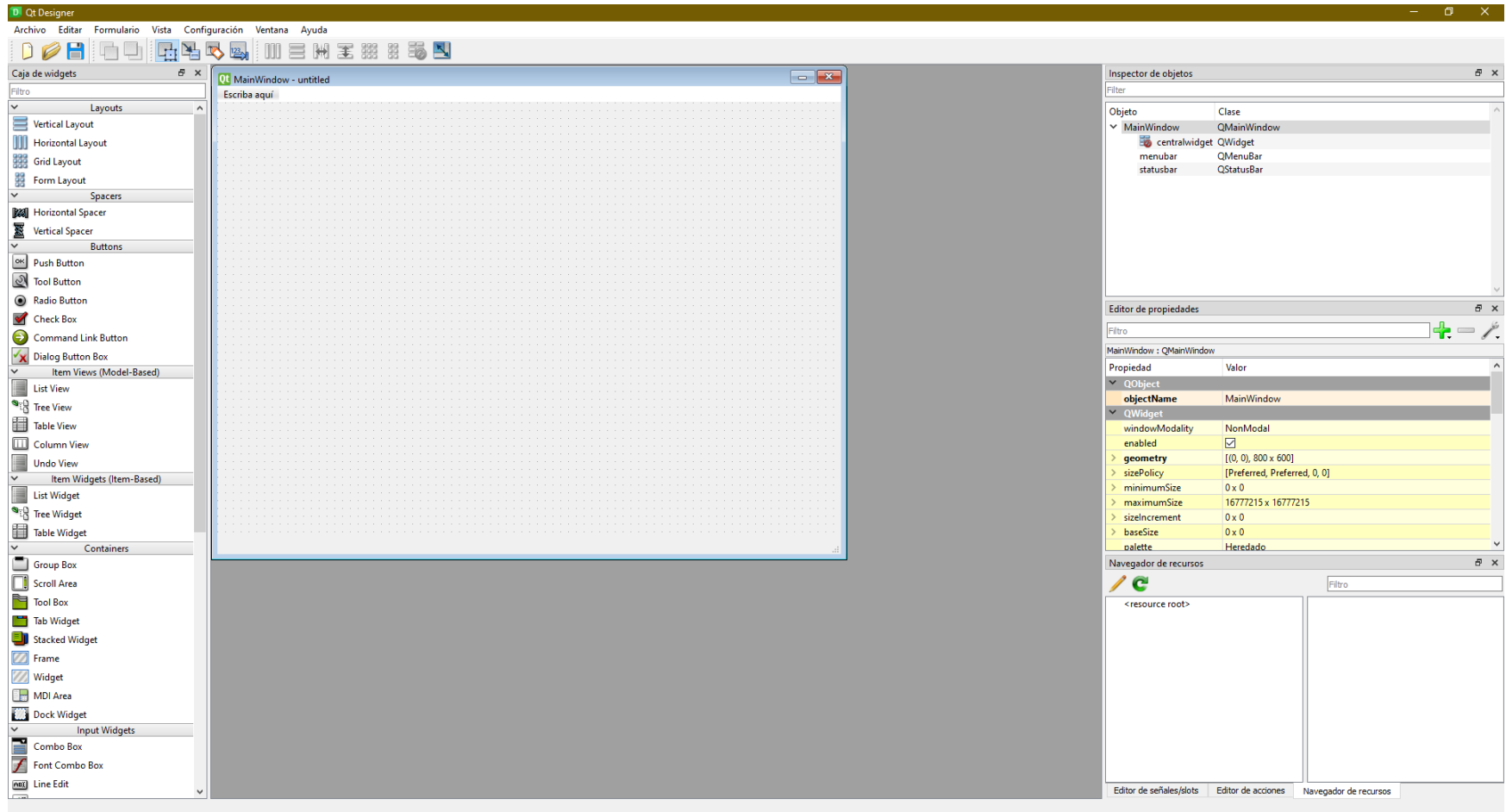
Comprobación de instalación correcta:



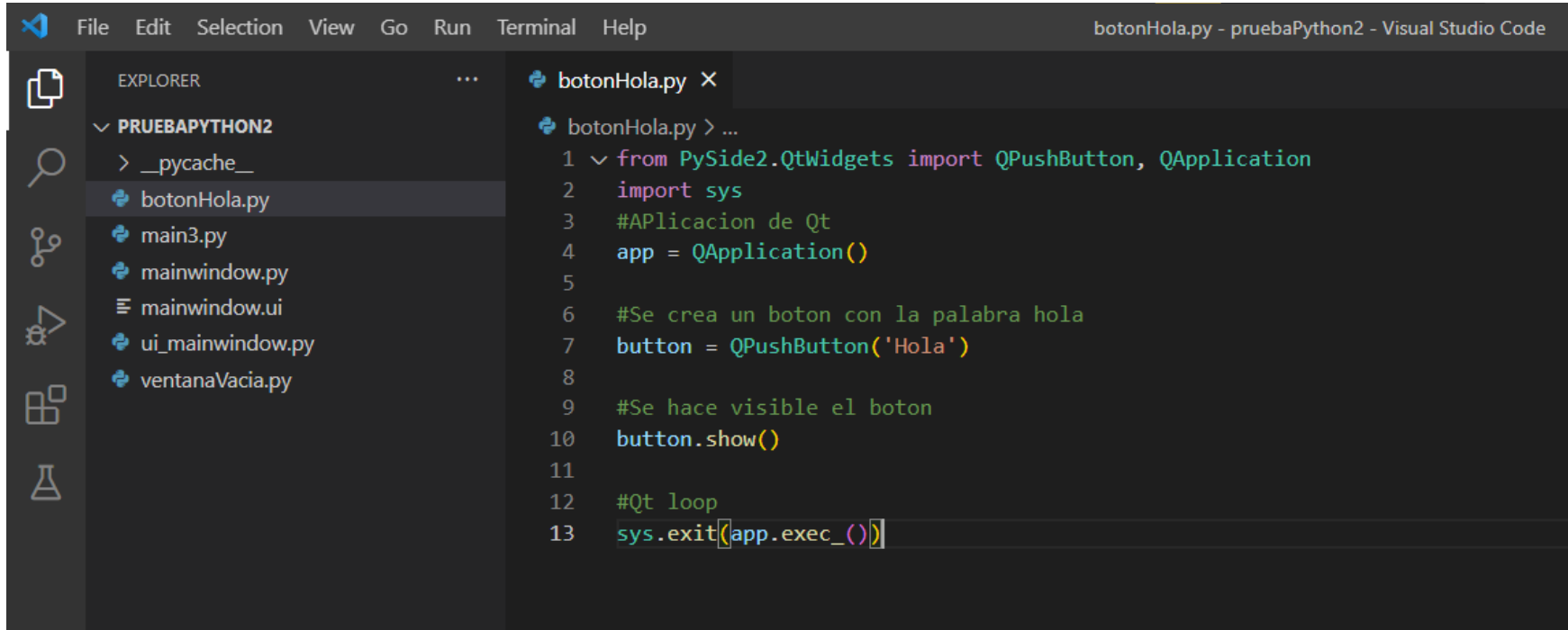
```
C:\Windows\system32\cmd.exe
C:\Users\Usuario>
C:\Users\Usuario> pip show pyside2
Name: PySide2
Version: 5.15.2.1
Summary: Python bindings for the Qt cross-platform application and UI framework
Home-page: https://www.pyside.org
Author: Qt for Python Team
Author-email: pyside@qt-project.org
License: LGPL
Location: c:\users\usuario\appdata\local\programs\python\python37\lib\site-packages
Requires: shiboken2
Required-by:

C:\Users\Usuario>
```

Abrir Designer.exe:



Código Botón Hola:



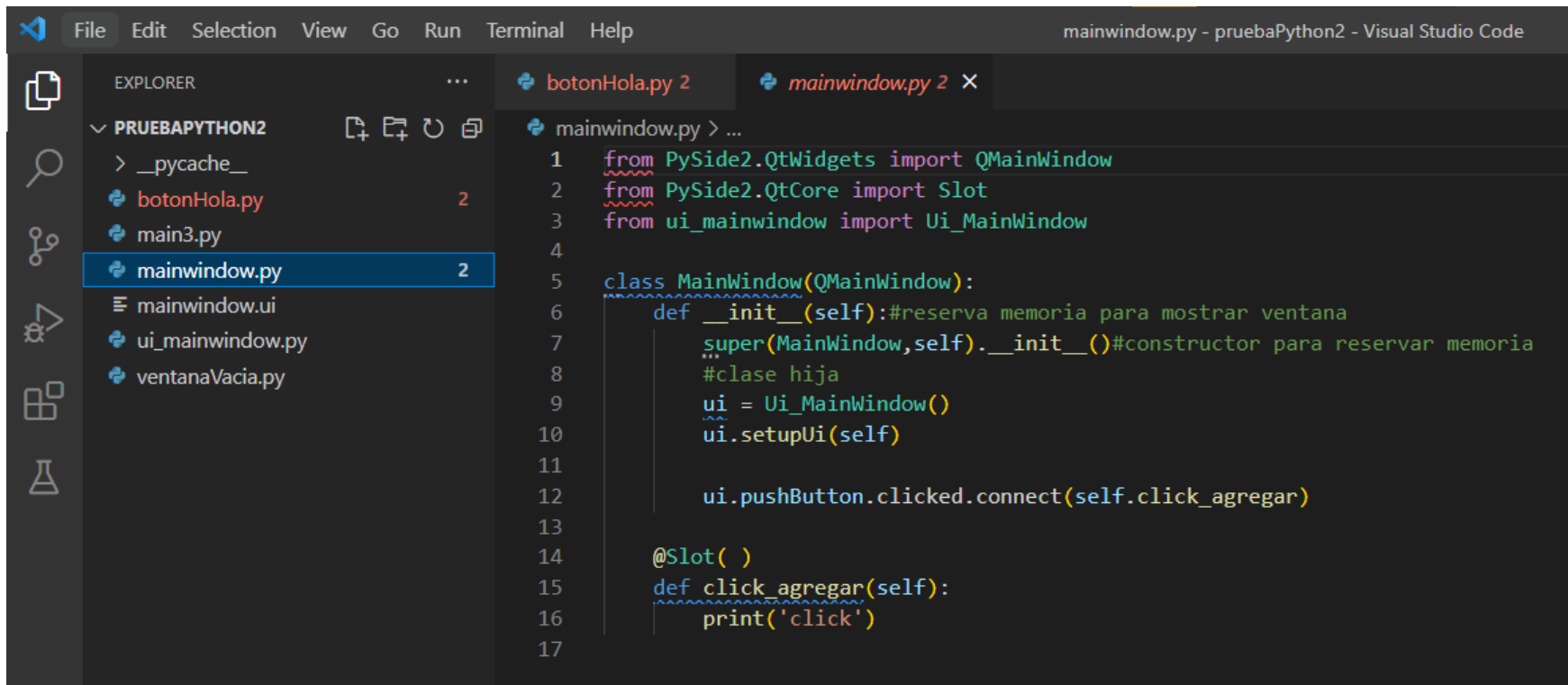
The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a project named 'PRUEBAPYTHON2' with files: '__pycache__', 'botonHola.py' (selected), 'main3.py', 'mainwindow.py', 'mainwindow.ui', 'ui_mainwindow.py', and 'ventanaVacía.py'. The main editor area shows the code for 'botonHola.py' with the following content:

```
1 from PySide2.QtWidgets import QPushButton, QApplication
2 import sys
3 #Aplicacion de Qt
4 app = QApplication()
5
6 #Se crea un boton con la palabra hola
7 button = QPushButton('Hola')
8
9 #Se hace visible el boton
10 button.show()
11
12 #Qt loop
13 sys.exit(app.exec_())
```

Botón Hola:



Código clase Mainwindow:



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 'mainwindow.py - pruebaPython2 - Visual Studio Code'. The Explorer panel on the left shows a project named 'PRUEBAPYTHON2' with 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' with the following content:

```
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
```

Interfaz Grafica con QT:

