



Seminario de Algoritmia

CLAVE: I59556

NRC: 59556

2022B

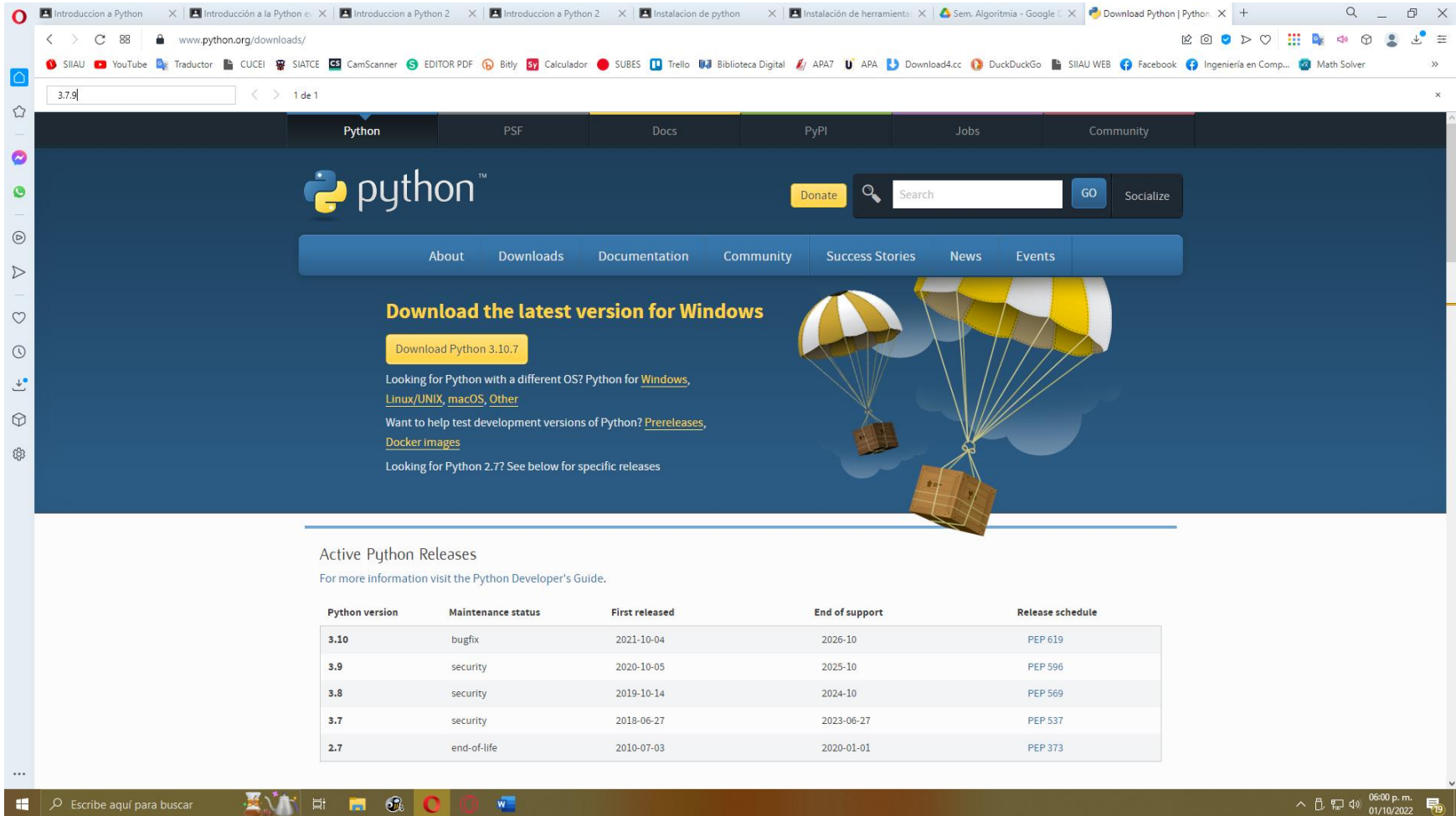
D14

Instalación de Herramientas

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Entro a la página de Python y busco la versión 3.7.9



The screenshot shows the Python.org website with the URL www.python.org/downloads/. The page has a dark blue header with the Python logo and navigation links: Python, PSF, Docs, PyPI, Jobs, and Community. Below the header is a search bar and a 'Donate' button. The main content area features a large banner for downloading the latest version for Windows, with a yellow button labeled 'Download Python 3.10.7'. To the right of the banner is an illustration of two parachutes carrying boxes. Below the banner, there is a section titled 'Active Python Releases' with a link to the Python Developer's Guide. This section contains a table with the following data:

Python version	Maintenance status	First released	End of support	Release schedule
3.10	bugfix	2021-10-04	2026-10	PEP 619
3.9	security	2020-10-05	2025-10	PEP 596
3.8	security	2019-10-14	2024-10	PEP 569
3.7	security	2018-06-27	2023-06-27	PEP 537
2.7	end-of-life	2010-07-03	2020-01-01	PEP 373

Descargo y ejecuto el instalador.



Marcando la casilla de añadir al PATH.

Verifico que la instalación fue concluida y que mi PC tiene la versión correcta.

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

C:\Users\Usuario>python --version
Python 3.7.9

C:\Users\Usuario>
```

Creo una carpeta con un archivo .py dentro para hacer la prueba del script.

```
main0.py: Bloc de notas
Archivo Edición Formato Ver Ayuda
print("Hola Mundo!")
```

Ejecuto el script desde el cmd.

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

C:\Users\Usuario>cd desktop

C:\Users\Usuario\Desktop>cd pruebaPython

C:\Users\Usuario\Desktop\pruebaPython>python Main0.py
Hola Mundo!

C:\Users\Usuario\Desktop\pruebaPython>
```

Entro a la pagina del Visual Studio Code y descargo la versión mas reciente

The screenshot shows the Visual Studio Code download page in a web browser. The browser's address bar shows the URL `code.visualstudio.com/download`. The page features a dark header with the Visual Studio Code logo, navigation links (Docs, Updates, Blog, API, Extensions, FAQ, Learn), a search bar, and a prominent blue 'Download' button. A banner below the header announces 'Version 1.71 is now available!'. The main content area is titled 'Download Visual Studio Code' with the tagline 'Free and built on open source. Integrated Git, debugging and extensions.' Below this, three operating system sections are displayed: Windows (with the Windows logo), Linux (with the Tux penguin logo), and Mac (with the Apple logo). Each section lists available download formats and their bit architectures. At the bottom, there are links to 'Want new features sooner?' (Insiders build) and 'Use vscode.dev for quick edits online!'. The browser's taskbar at the bottom shows various open applications and the system clock indicating 06:21 p.m. on 01/10/2022.


code.visualstudio.com/download

Visual Studio Code Docs Updates Blog API Extensions FAQ Learn

Version 1.71 is now available! Read about the new features and fixes from August.

Download Visual Studio Code


Free and built on open source. Integrated Git, debugging and extensions.



Windows

Windows 8, 10, 11


User Installer	64 bit	32 bit	ARM
System Installer	64 bit	32 bit	ARM
.zip	64 bit	32 bit	ARM



Linux

.deb	64 bit	ARM	ARM 64
.rpm	64 bit	ARM	ARM 64
.tar.gz	64 bit	ARM	ARM 64

Snap Store



Mac

macOS 10.11+

.zip	Universal	Intel Chip	Apple Silicon
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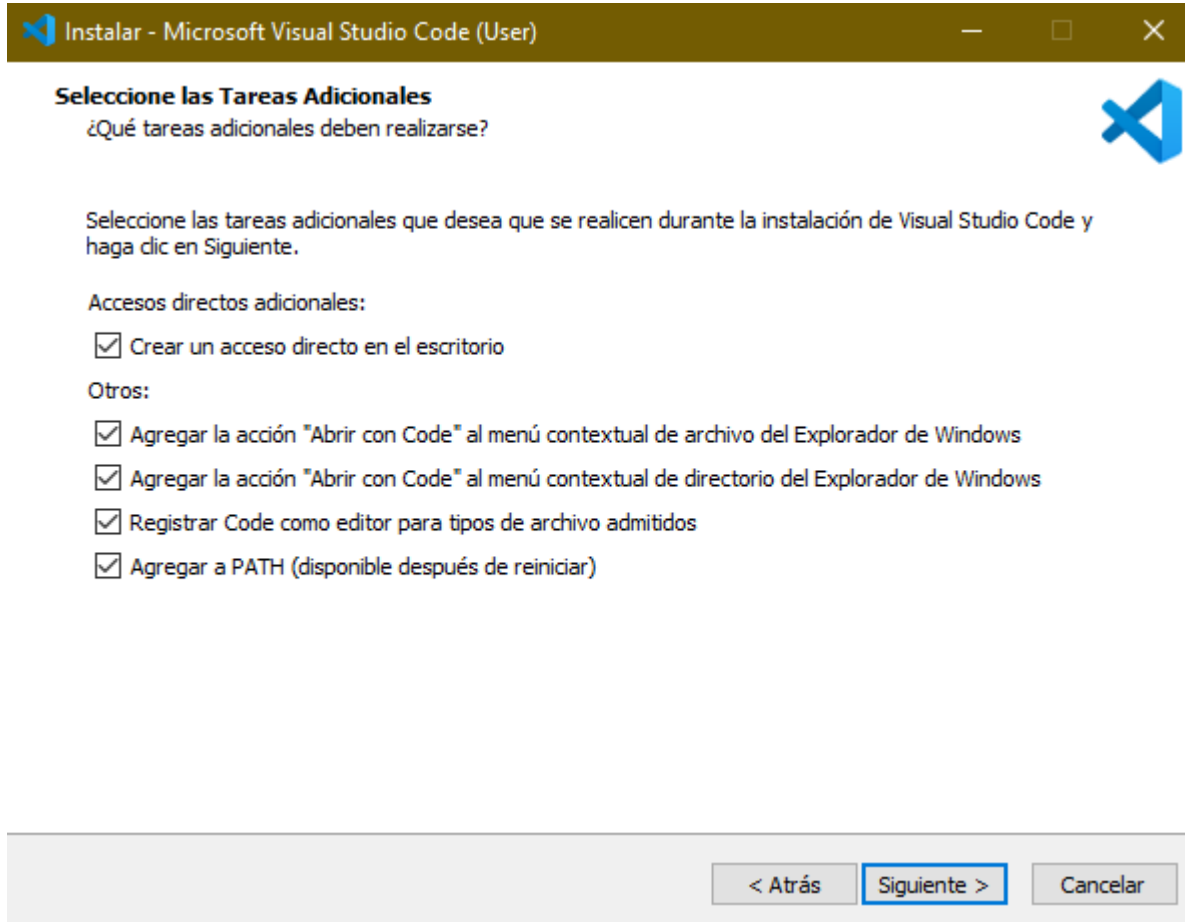
By downloading and using Visual Studio Code, you agree to the [license terms](#) and [privacy statement](#).

Want new features sooner?
Get the [Insiders build](#) instead.

Use [vscode.dev](#) for quick edits online!
GitHub, Azure Repos. and local files.

06:21 p.m. 01/10/2022

Marco todas las casillas del instalador.

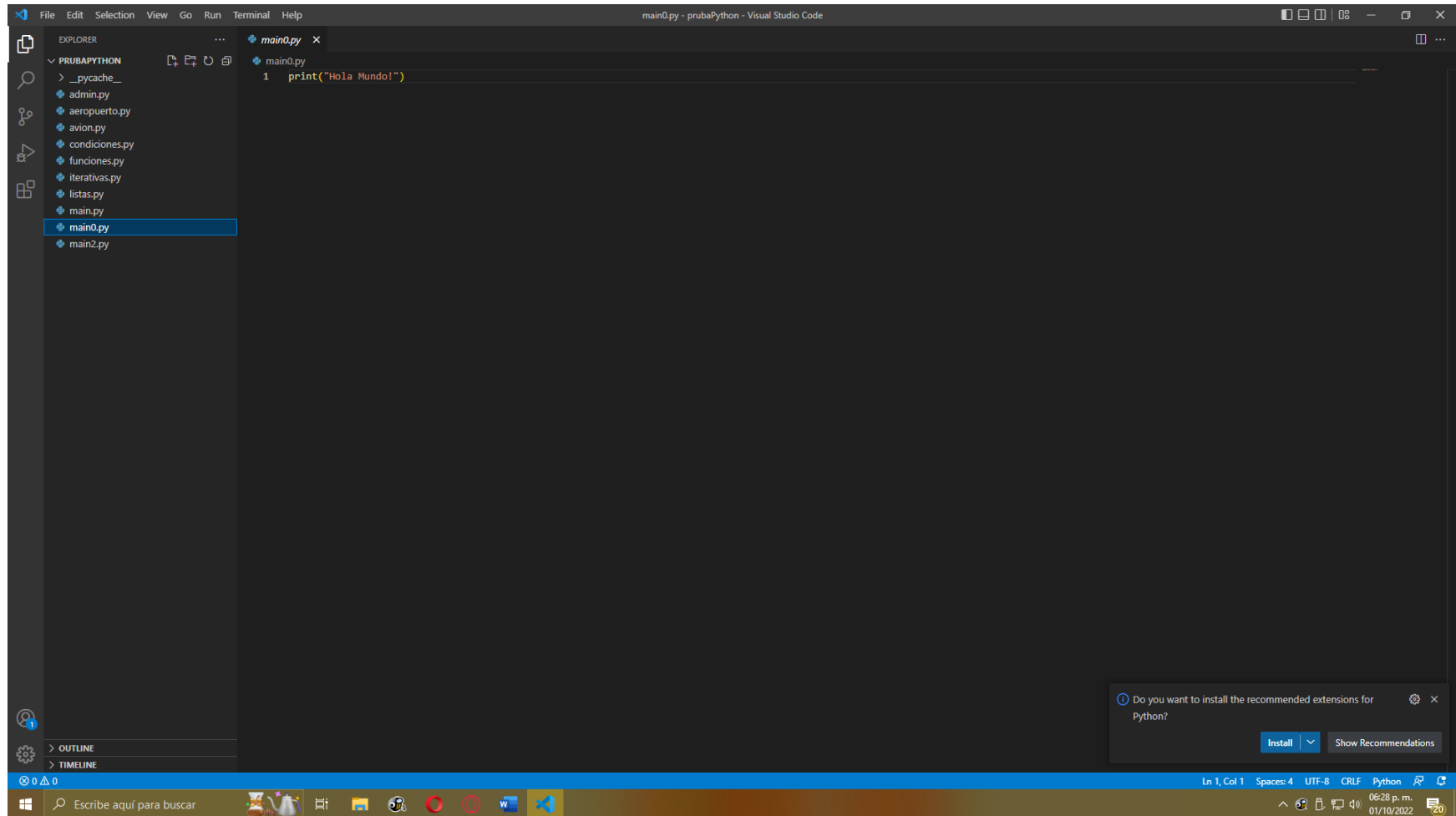


The image shows a Windows installer window titled "Instalar - Microsoft Visual Studio Code (User)". The window has a blue header bar with the Visual Studio Code logo and title. The main content area is white and contains the following text and controls:

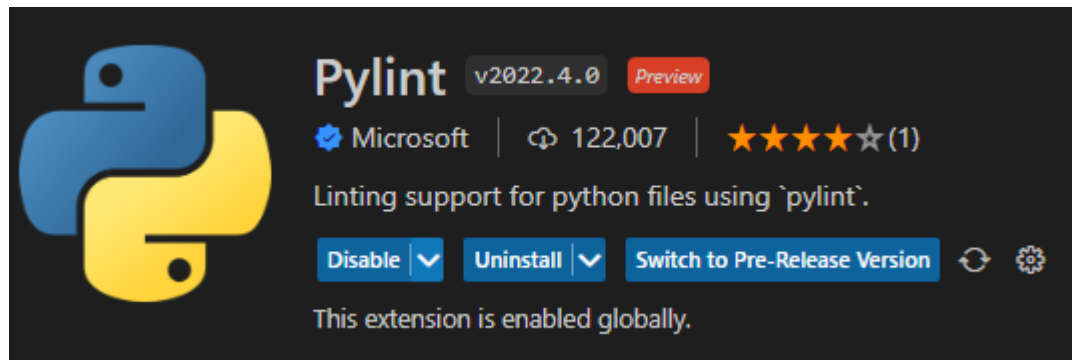
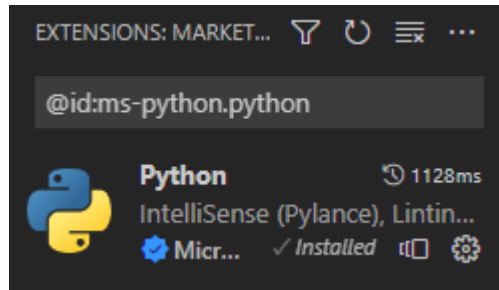
- Seleccione las Tareas Adicionales** (Select Additional Tasks)
- ¿Qué tareas adicionales deben realizarse?** (What additional tasks should be performed?)
- Seleccione las tareas adicionales que desea que se realicen durante la instalación de Visual Studio Code y haga clic en Siguiente.** (Select the additional tasks you want to be performed during the installation of Visual Studio Code and click Next.)
- Accesos directos adicionales:** (Additional shortcuts:)
- ☒ Crear un acceso directo en el escritorio (Create a shortcut on the desktop)
- Otros:** (Others:)
- ☒ Agregar la acción "Abrir con Code" al menú contextual de archivo del Explorador de Windows (Add the "Open with Code" action to the file context menu of Windows Explorer)
- ☒ Agregar la acción "Abrir con Code" al menú contextual de directorio del Explorador de Windows (Add the "Open with Code" action to the directory context menu of Windows Explorer)
- ☒ Registrar Code como editor para tipos de archivo admitidos (Register Code as editor for supported file types)
- ☒ Agregar a PATH (disponible después de reiniciar) (Add to PATH (available after restart))

At the bottom of the window, there are three buttons: "< Atrás" (Previous), "Siguiente >" (Next), and "Cancelar" (Cancel). The "Siguiente >" button is highlighted with a blue border.

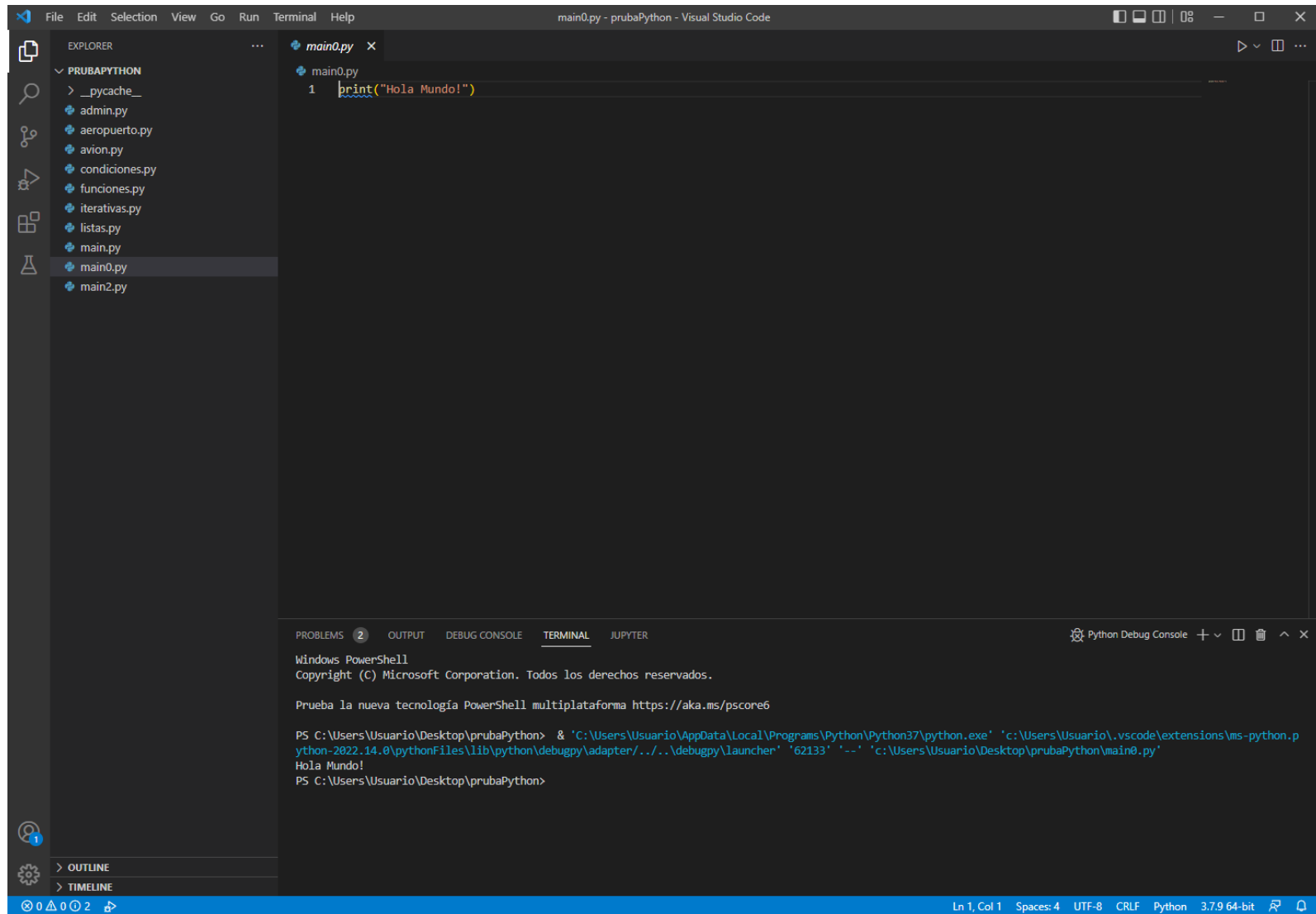
Abro mi carpeta prueba Python con VSC y me parece el aviso para instalar la extensión de Python.



Ya instalada ahora instaló la extensión pylint



Corro mi programa de prueba miano.py destros de VSC.



The screenshot shows the Visual Studio Code interface with a dark theme. The Explorer sidebar on the left displays a file tree for a project named 'PRUBAPYTHON'. The files listed are: `__pycache__`, `admin.py`, `aeropuerto.py`, `avion.py`, `condiciones.py`, `funciones.py`, `iterativas.py`, `listas.py`, `main.py`, `main0.py` (selected), and `main2.py`. The main editor window shows the content of `main0.py`, which contains a single line of Python code: `1 print("Hola Mundo!")`. The bottom panel contains the 'TERMINAL' tab, which shows the output of running the program in a PowerShell window. The output text is:
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Prueba la nueva tecnología PowerShell multiplataforma <https://aka.ms/pscore6>

PS C:\Users\Usuario\Desktop\prubaPython> & 'C:\Users\Usuario\AppData\Local\Programs\Python\Python37\python.exe' 'c:\Users\Usuario\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '62133' '--' 'c:\Users\Usuario\Desktop\prubaPython\main0.py'
Hola Mundo!
PS C:\Users\Usuario\Desktop\prubaPython>

The status bar at the bottom indicates the current cursor position is 'Ln 1, Col 1', the file encoding is 'UTF-8', the line ending is 'CRLF', the language is 'Python', and the Python version is '3.7.9 64-bit'.

Por ultimo agrego algunas variables a mi programa y lo corro esta vez con un breakpoint y con el uso del debugger.

