



**Seminario de Algoritmia**

**CLAVE: I59556**

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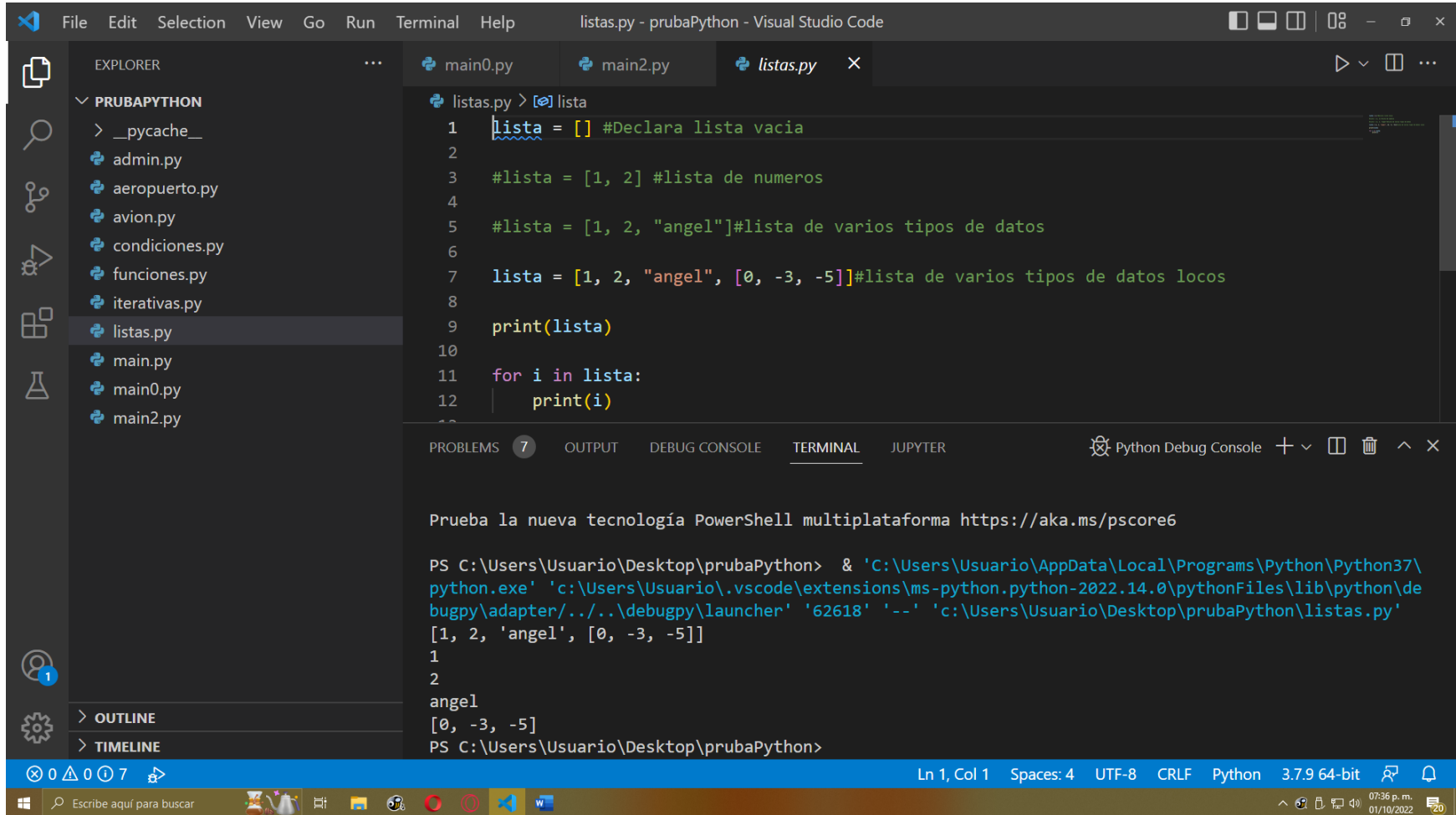
**D14**

**Introducción a la Python Evidencia 2**

**Arellano Granados Angel Mariano**

**218123444**

## Ejercicio 1 listas:



The image shows a Visual Studio Code window with a Python file named `listas.py` open. The file contains the following code:

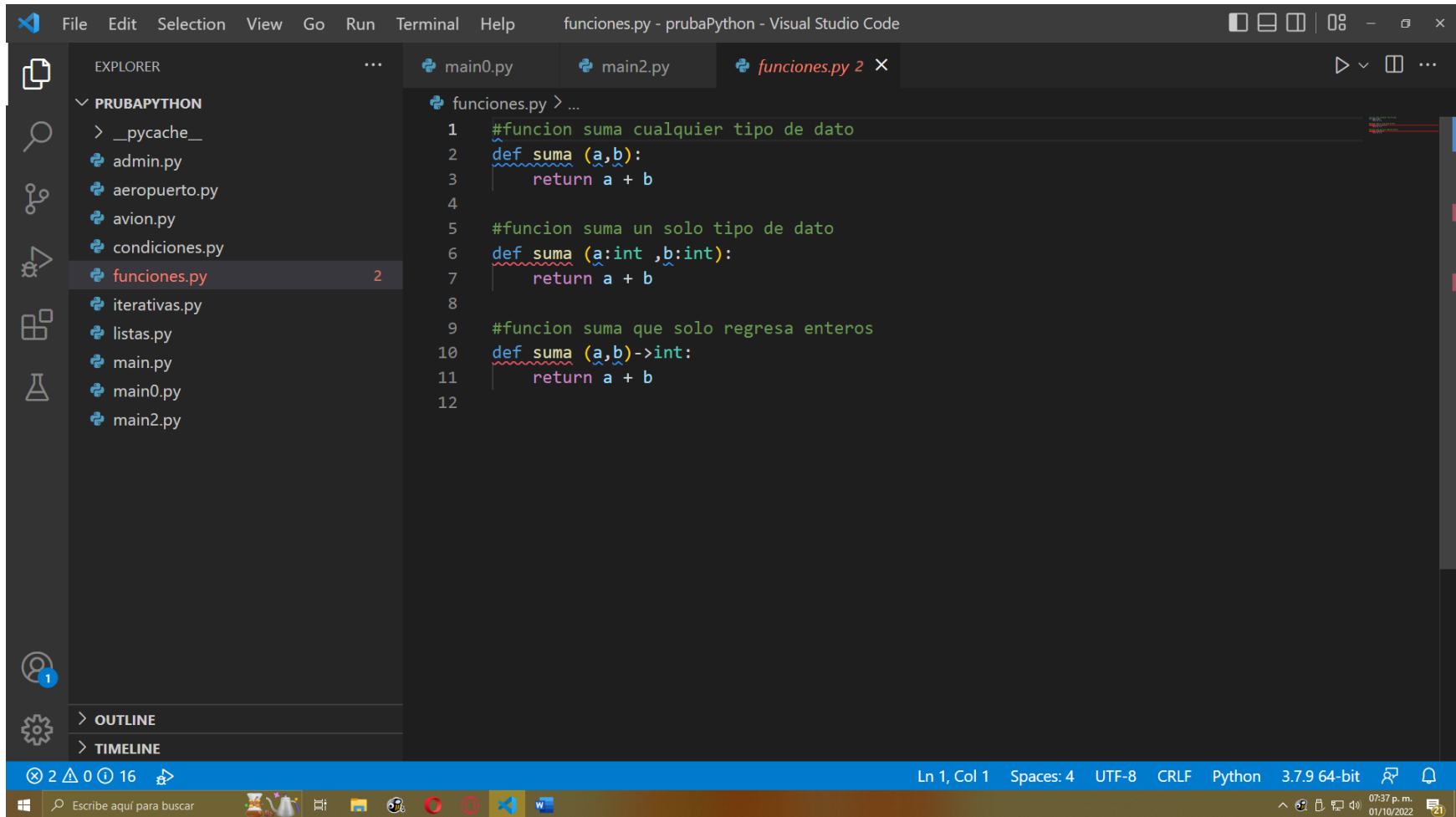
```
1 lista = [] #Declara lista vacia
2
3 #lista = [1, 2] #lista de numeros
4
5 #lista = [1, 2, "angel"]#lista de varios tipos de datos
6
7 lista = [1, 2, "angel", [0, -3, -5]]#lista de varios tipos de datos locos
8
9 print(lista)
10
11 for i in lista:
12     print(i)
```

The terminal output shows the execution of the script, displaying the list and its elements:

```
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' '62618' '--' 'c:\Users\Usuario\Desktop\prubaPython\listas.py'
[1, 2, 'angel', [0, -3, -5]]
1
2
angel
[0, -3, -5]
PS C:\Users\Usuario\Desktop\prubaPython>
```

The status bar at the bottom indicates the current line and column (Ln 1, Col 1), the number of spaces (4), the encoding (UTF-8), the line ending (CRLF), the interpreter (Python 3.7.9 64-bit), and the file name (`listas.py`).

## Ejercicio 2 funciones:

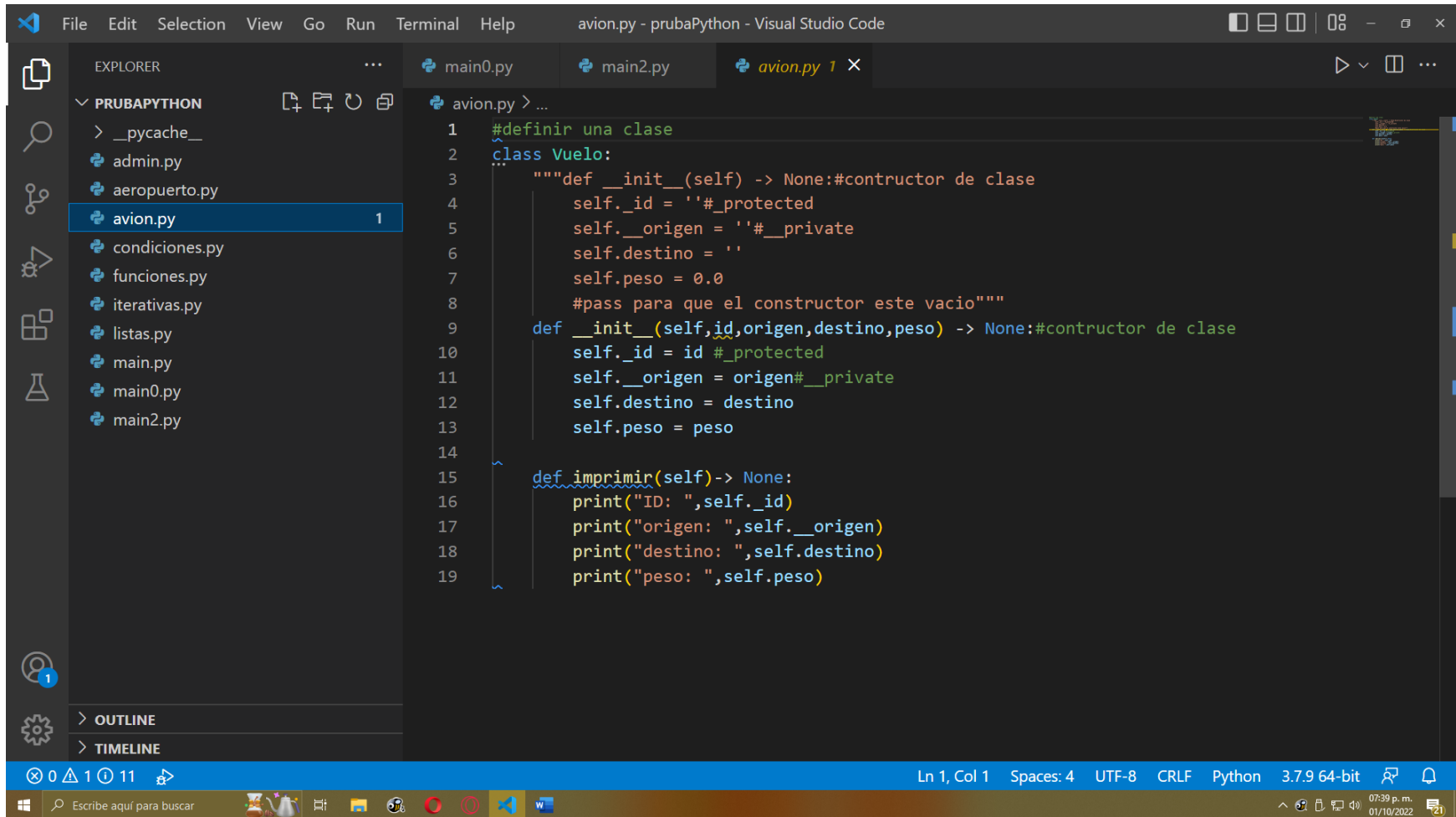


The image shows a screenshot of the Visual Studio Code editor interface. The title bar at the top reads "funciones.py - pruebaPython - Visual Studio Code". The Explorer sidebar on the left shows a project named "PRUBAPYTHON" with several files: `__pycache__`, `admin.py`, `aeropuerto.py`, `avion.py`, `condiciones.py`, `funciones.py` (highlighted with a red "2" next to it), `iterativas.py`, `listas.py`, `main.py`, `main0.py`, and `main2.py`. The main editor area displays the content of `funciones.py` with the following code:

```
1  #funcion suma cualquier tipo de dato
2  def suma (a,b):
3      return a + b
4
5  #funcion suma un solo tipo de dato
6  def suma (a:int ,b:int):
7      return a + b
8
9  #funcion suma que solo regresa enteros
10 def suma (a,b)->int:
11     return a + b
12
```

The status bar at the bottom indicates the current position is "Ln 1, Col 1", with "Spaces: 4", "UTF-8", "CRLF", "Python", and "3.7.9 64-bit" settings. The Windows taskbar at the very bottom shows the search bar with the text "Escribe aquí para buscar" and the system clock displaying "07:37 p. m. 01/10/2022".

### Ejercicio 3 clases:



The image shows a screenshot of the Visual Studio Code editor interface. The Explorer panel on the left displays a project named 'PRUBAPYTHON' with several files. The file 'avion.py' is selected and highlighted. The main editor window shows the code for 'avion.py', which defines a 'Vuelo' class. The code includes a docstring for the class, an initialization method '\_\_init\_\_' with parameters 'id', 'origen', 'destino', and 'peso', and a method 'imprimir' for printing the object's attributes. The status bar at the bottom indicates the current position is 'Ln 1, Col 1' and the file encoding is 'UTF-8'.

```
1  #definir una clase
2  class Vuelo:
3      """def __init__(self) -> None:#constructor de clase
4          self._id = '#_protected
5          self.__origen = '#_private
6          self.destino = ''
7          self.peso = 0.0
8          #pass para que el constructor este vacio"""
9      def __init__(self,id,origen,destino,peso) -> None:#constructor de clase
10         self._id = id #_protected
11         self.__origen = origen#_private
12         self.destino = destino
13         self.peso = peso
14
15     def imprimir(self)-> None:
16         print("ID: ",self._id)
17         print("origen: ",self.__origen)
18         print("destino: ",self.destino)
19         print("peso: ",self.peso)
```

