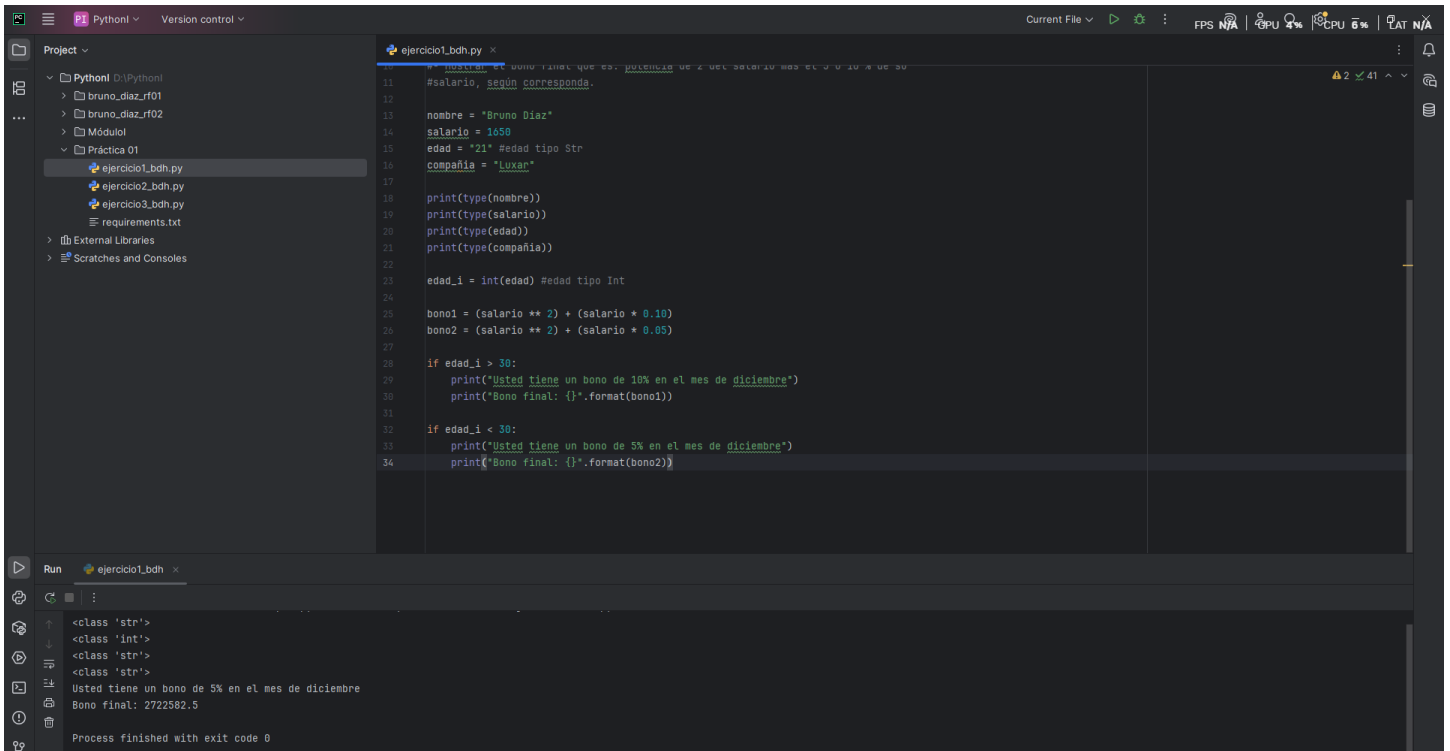


Ejercicio 1:



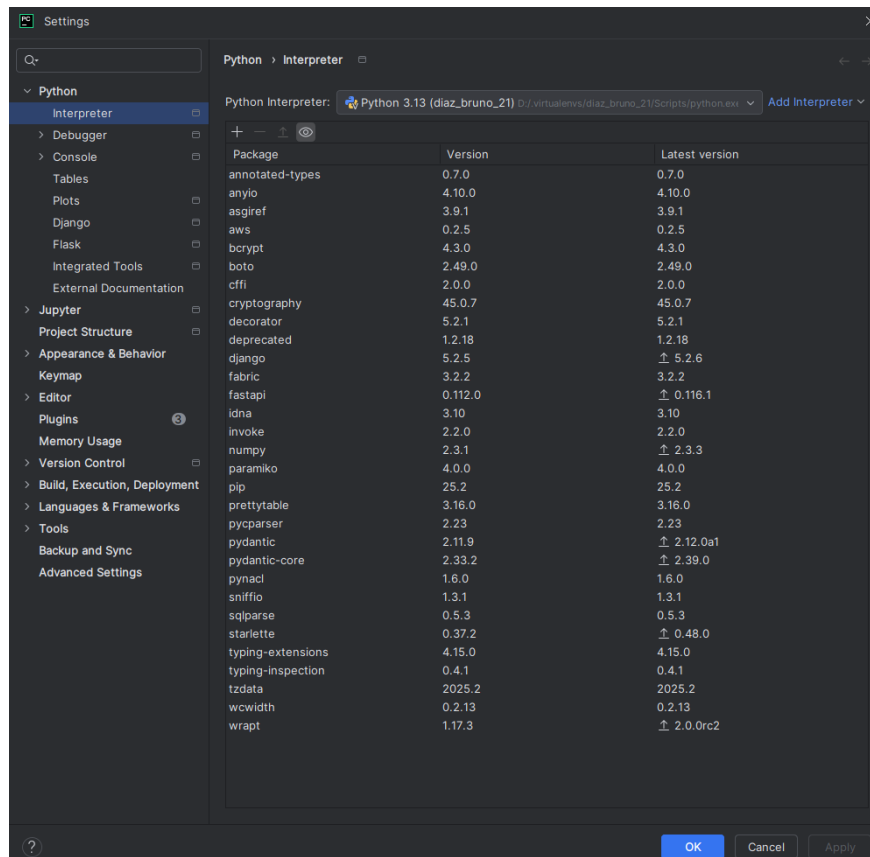
```
11 #salario, según corresponda.
12
13 nombre = "Bruno Diaz"
14 salario = 1050
15 edad = "21" #edad tipo Str
16 compañía = "Luxar"
17
18 print(type(nombre))
19 print(type(salario))
20 print(type(edad))
21 print(type(compañía))
22
23 edad_i = int(edad) #edad tipo Int
24
25 bono1 = (salario ** 2) + (salario * 0.10)
26 bono2 = (salario ** 2) + (salario * 0.05)
27
28 if edad_i > 30:
29     print("Usted tiene un bono de 10% en el mes de diciembre")
30     print("Bono final: {}".format(bono1))
31
32 if edad_i < 30:
33     print("Usted tiene un bono de 5% en el mes de diciembre")
34     print("Bono final: {}".format(bono2))
```

Run: ejercicio1_bdh

```
<class 'str'>
<class 'int'>
<class 'str'>
<class 'str'>
Usted tiene un bono de 5% en el mes de diciembre
Bono final: 2722582.5
Process finished with exit code 0
```

Figura 1. Resultados del ejercicio 1

Ejercicio 2: Entorno virtual “diaz_bruno_21”



Package	Version	Latest version
annotated-types	0.7.0	0.7.0
anyio	4.10.0	4.10.0
asgiref	3.9.1	3.9.1
aws	0.2.5	0.2.5
bcrypt	4.3.0	4.3.0
boto	2.49.0	2.49.0
cfri	2.0.0	2.0.0
cryptography	45.0.7	45.0.7
decorator	5.2.1	5.2.1
deprecated	1.2.18	1.2.18
djando	5.2.5	5.2.6
fabric	3.2.2	3.2.2
fastapi	0.112.0	0.116.1
idna	3.10	3.10
invoke	2.2.0	2.2.0
numpy	2.3.1	2.3.3
paramiko	4.0.0	4.0.0
pip	25.2	25.2
prettytable	3.16.0	3.16.0
pycparser	2.23	2.23
pydantic	2.11.9	2.12.0a1
pydantic-core	2.33.2	2.39.0
pynacl	1.6.0	1.6.0
sniffio	1.3.1	1.3.1
sqlparse	0.5.3	0.5.3
starlette	0.37.2	0.48.0
typing-extensions	4.15.0	4.15.0
typing-inspection	0.4.1	0.4.1
tzdata	2025.2	2025.2
wcwidth	0.2.13	0.2.13
wrapt	1.17.3	2.0.0rc2

Figura 1. Lista de librerías instaladas en Settings

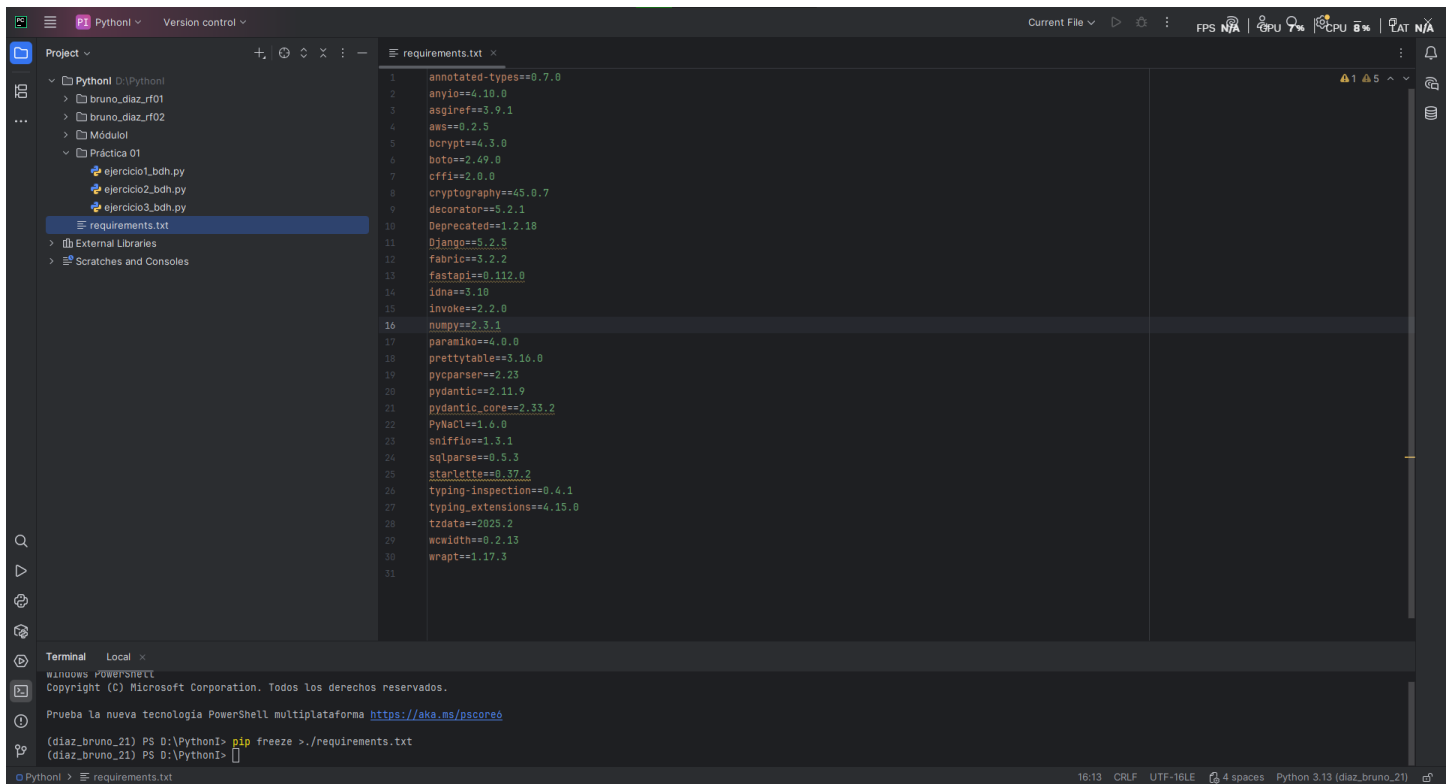


Figura 2. Lista de librerías instaladas en requirements.txt

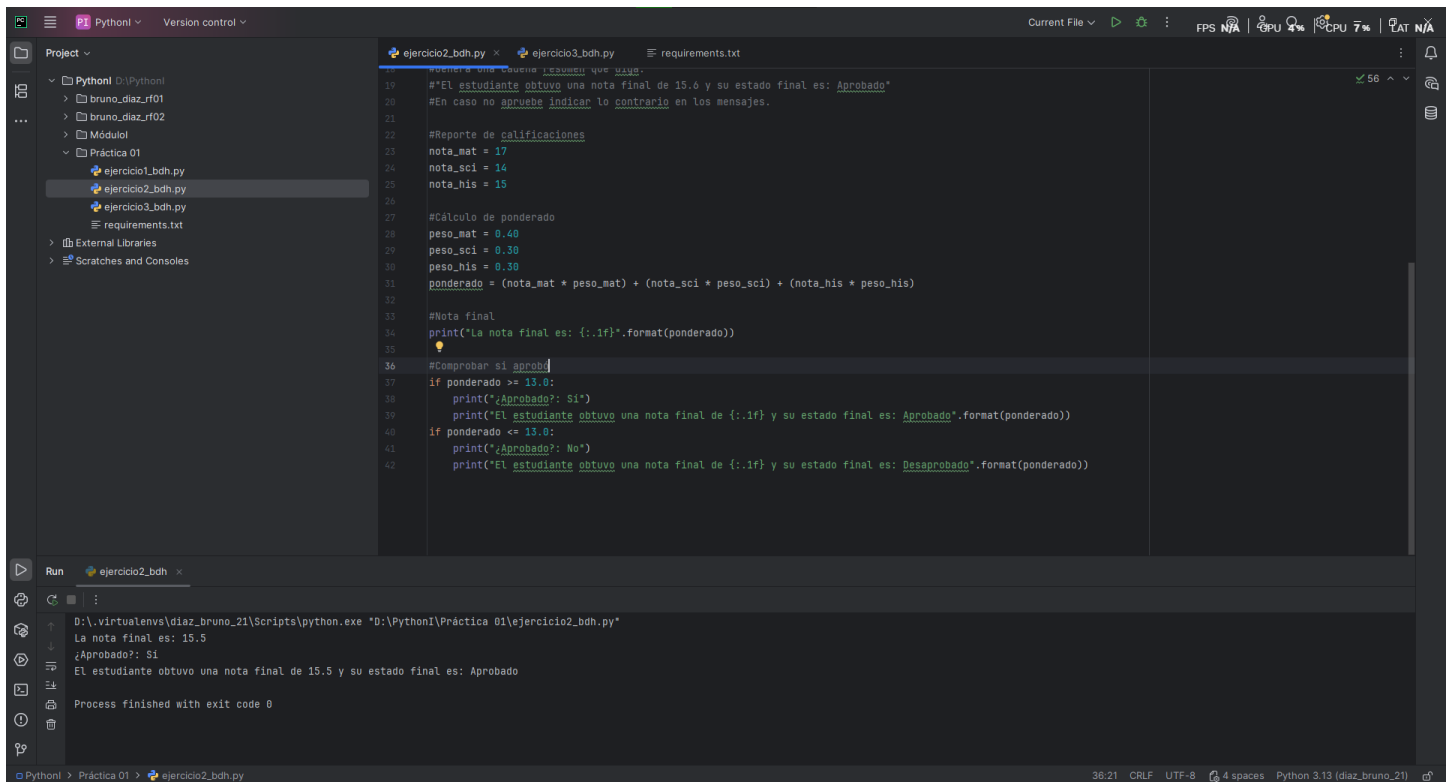


Figura 3. Resultados del caso del ejercicio 2

Ejercicio 3: Entorno virtual “diaz_bruno”

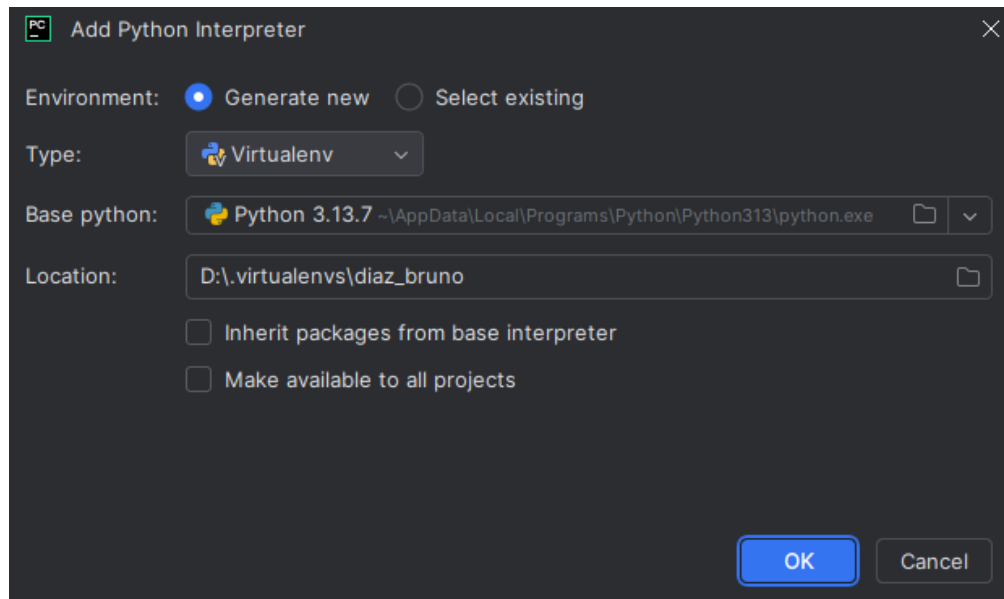


Figura 1. Creación de nuevo entorno virtual

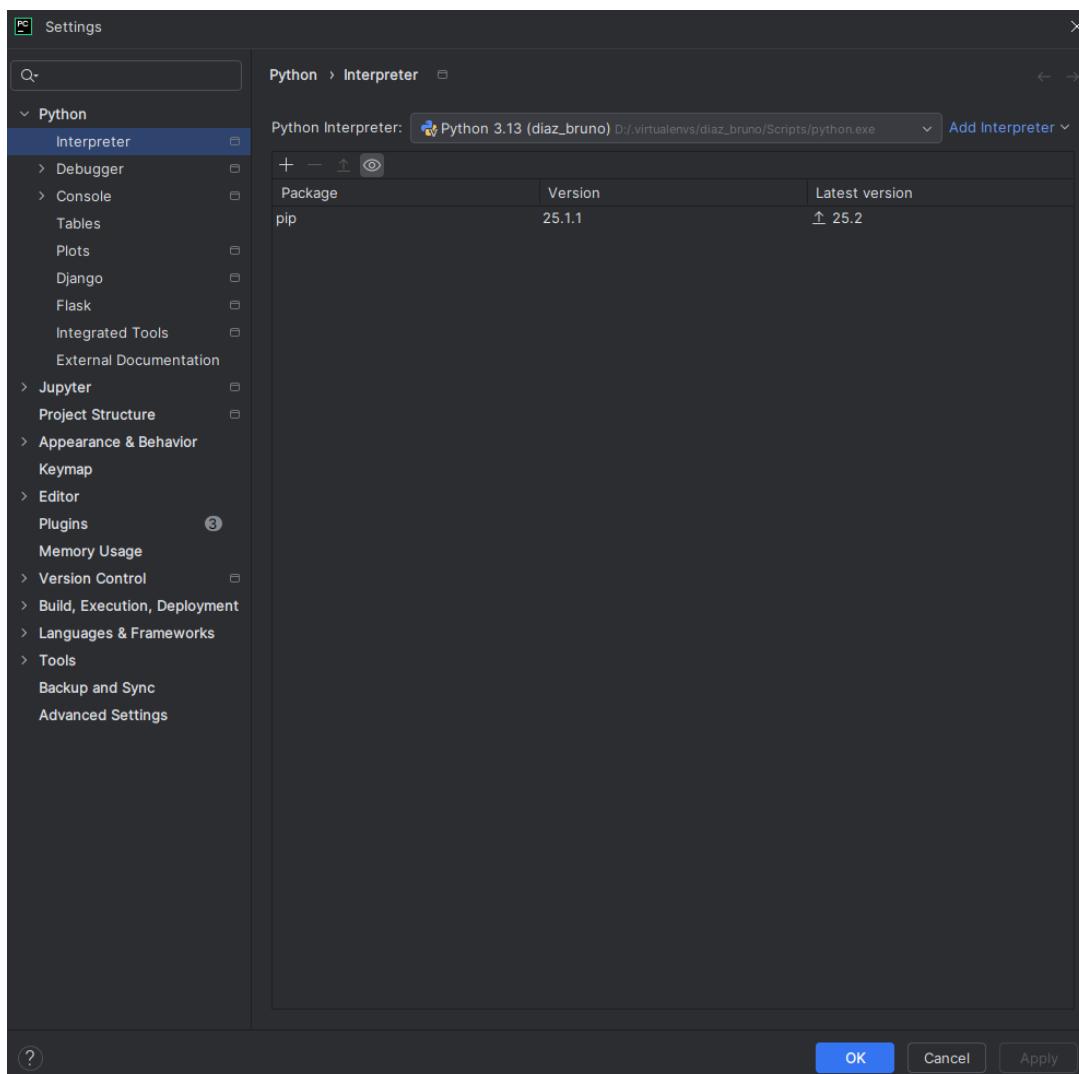


Figura 2. Entorno virtual vacío (sin librerías)

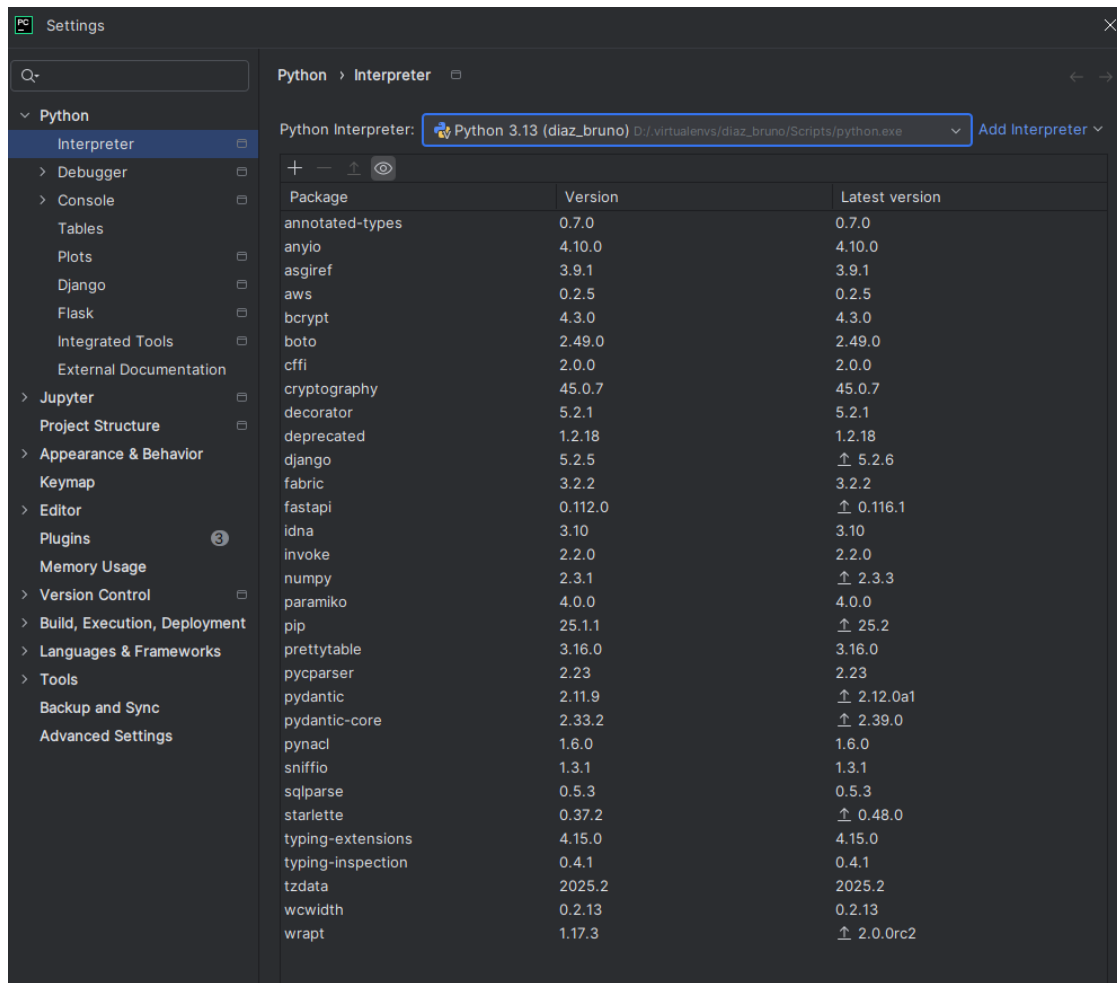
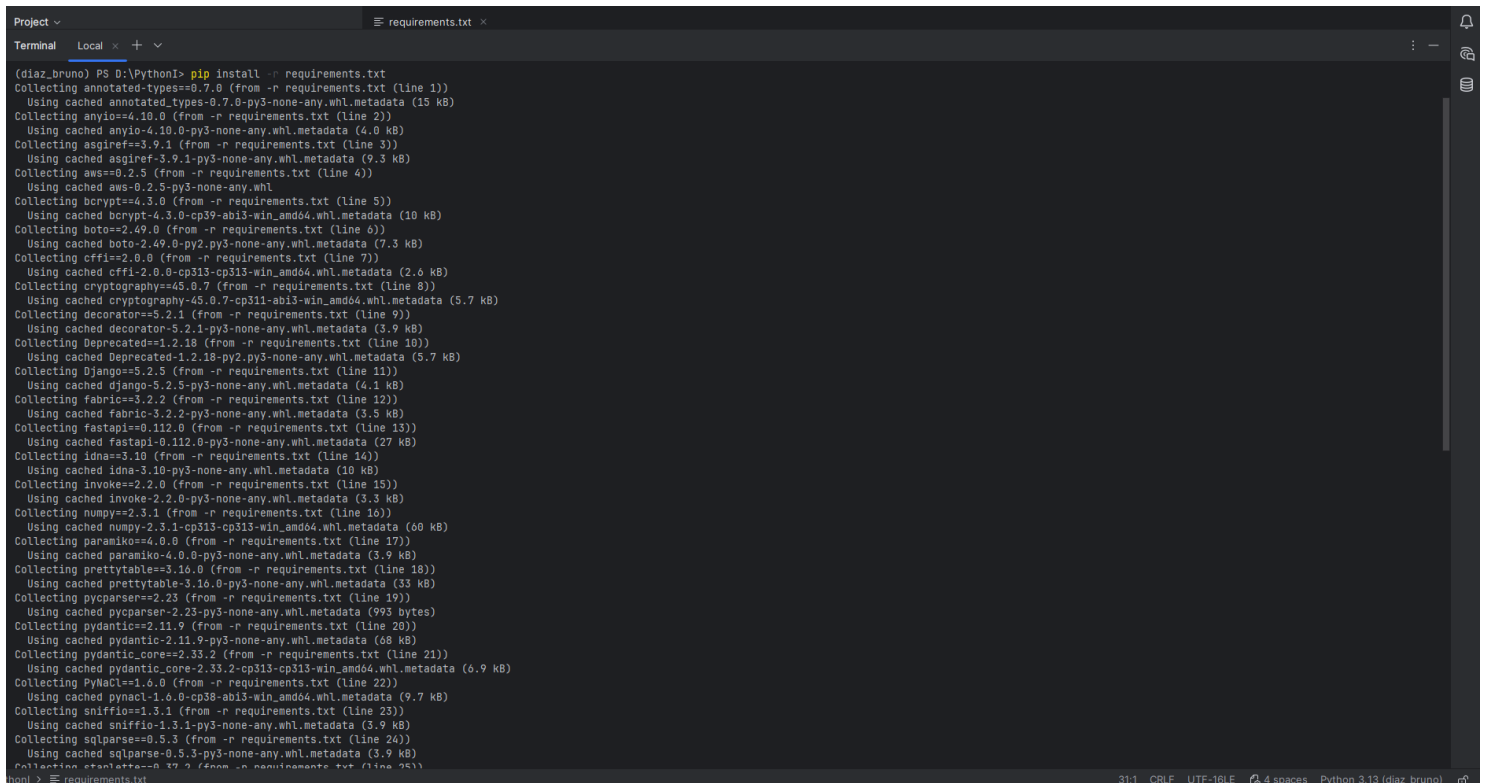


Figura 3. Entorno virtual con las librerías de requirements.txt



```
Project v requirements.txt x
Terminal Local x + v
Collecting starlette==0.37.2 (from -r requirements.txt (line 20))
Using cached starlette-0.37.2-py3-none-any.whl.metadata (5.9 kB)
Collecting typing-inspection==0.4.1 (from -r requirements.txt (line 20))
Using cached typing-inspection-0.4.1-py3-none-any.whl.metadata (2.6 kB)
Collecting typing-extensions==4.15.0 (from -r requirements.txt (line 27))
Using cached typing_extensions-4.15.0-py3-none-any.whl.metadata (3.3 kB)
Collecting tzdata==2025.2 (from -r requirements.txt (line 28))
Using cached tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting wcwidth==0.2.13 (from -r requirements.txt (line 29))
Using cached wcwidth-0.2.13-py2.py3-none-any.whl.metadata (14 kB)
Collecting wrapt==1.17.3 (from -r requirements.txt (line 30))
Using cached wrapt-1.17.3-cp313-cp313-win_and64.whl.metadata (6.5 kB)
Using cached annotated_types-0.7.0-py3-none-any.whl (13 kB)
Using cached anyio-4.10.0-py3-none-any.whl (107 kB)
Using cached asgiref-3.9.1-py3-none-any.whl (23 kB)
Using cached bcrypt-4.3.0-cp39-abi3-win_and64.whl (152 kB)
Using cached boto-2.49.0-py2.py3-none-any.whl (1.4 MB)
Using cached cffi-2.0.0-cp313-cp313-win_and64.whl (183 kB)
Using cached cryptography-45.0.7-cp311-abi3-win_and64.whl (3.4 MB)
Using cached decorator-5.2.1-py3-none-any.whl (9.2 kB)
Using cached deprecated-1.2.18-py2.py3-none-any.whl (10.0 kB)
Using cached wrapt-1.17.3-cp313-cp313-win_and64.whl (30 kB)
Using cached django-5.2.5-py3-none-any.whl (8.3 MB)
Using cached fabric-3.2.2-py3-none-any.whl (59 kB)
Using cached fastapi-0.112.0-py3-none-any.whl (93 kB)
Using cached pydantic-2.11.9-py3-none-any.whl (444 kB)
Using cached starlette-0.37.2-py3-none-any.whl (71 kB)
Using cached idna-3.10-py3-none-any.whl (70 kB)
Using cached invoke-2.2.0-py3-none-any.whl (140 kB)
Using cached numpy-2.3.1-cp313-cp313-win_and64.whl (12.7 MB)
Using cached paramiko-4.0.0-py3-none-any.whl (223 kB)
Using cached prettytable-3.16.0-py3-none-any.whl (33 kB)
Using cached pycparser-2.23-py3-none-any.whl (118 kB)
Using cached pydantic_core-2.33.2-cp313-cp313-win_and64.whl (2.0 MB)
Using cached pynacl-1.6.0-cp38-abi3-win_and64.whl (238 kB)
Using cached sniffio-1.3.1-py3-none-any.whl (10 kB)
Using cached sqlparse-0.5.3-py3-none-any.whl (44 kB)
Using cached typing-inspection-0.4.1-py3-none-any.whl (14 kB)
Using cached typing_extensions-4.15.0-py3-none-any.whl (44 kB)
Using cached tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Using cached wcwidth-0.2.13-py2.py3-none-any.whl (34 kB)
Installing collected packages: wcwidth, boto, wrapt, tzdata, typing_extensions, sqlparse, sniffio, pycparser, prettytable, numpy, invoke, idna, decorator, bcrypt, asgiref, annotated-types, typing-inspection, pydantic_core, Django, deprecated, cffi, anyio, starlette, PyNaCl, pydantic, cryptography, paramiko, fastapi, fabric, aws
Successfully installed deprecated-1.2.18 Django-5.2.5 PyNaCl-1.6.0 annotated-types-0.7.0 anyio-4.10.0 asgiref-3.9.1 aws-0.2.5 bcrypt-4.3.0 boto-2.49.0 cffi-2.0.0 cryptography-45.0.7 decorator-5.2.1 fabric-3.2.2 fastapi-0.112.0 idna-3.10 invoke-2.2.0 numpy-2.3.1 paramiko-4.0.0 prettytable-3.16.0 pycparser-2.23 pydantic-2.11.9 pydantic_core-2.33.2 sniffio-1.3.1 sqlparse-0.5.3 starlette-0.37.2 typing-inspection-0.4.1 typing_extensions-4.15.0 tzdata-2025.2 wcwidth-0.2.13 wrapt-1.17.3
```

Figura 4. Proceso de instalación de las librerías de requirements.txt

```
Python3 Python3 Version control v
Project v Python3 D:\Python3
  v bruno_diaz_r01
  > bruno_diaz_r02
  > Módulo1
  > Práctica 01
    v ejercicio1_bdh.py
    v ejercicio2_bdh.py
    v ejercicio3_bdh.py
    requirements.txt
  > External Libraries
  > Scratches and Consoles

ejercicio3_bdh.py x
15 #El monto que debe pagar cada persona (con 2 decimales).
16 #Un mensaje será personalizado, indicará si el monto individual supera los 100
17 #soles, mostrando un mensaje de advertencia si es el caso.
18 #Entrada esperada (por input):
19 #Total de la cuenta: float
20 #Porcentaje de propina: float
21 #Número de personas: int
22 #Salida ejemplo (output):
23 #Monto total con propina: S/. 230.00
24 #Cada persona debe pagar: S/. 115.00
25 #¡Advertencia! El monto por persona supera los S/. 100
26
27 #Datos de la cuenta
28 cuenta = 452.90
29 propina_por = 0.15
30 num_personas = 5
31
32 monto_total = cuenta + (cuenta * propina_por)
33 por_personas = monto_total / num_personas
34
35 #Salida
36 print("Monto total con propina: S/. {:.2f}".format(monto_total))
37 print("Cada persona tiene que pagar: S/. {:.2f}".format(por_personas))
38
39 if por_personas > 100:
40     print("¡Advertencia! El monto por persona supera los S/. 100")

Run ejercicio3_bdh.py
D:\virtualenvs\diaz_bruno\Scripts\python.exe "D:\Python3\Práctica 01\ejercicio3_bdh.py"
Monto total con propina: S/. 520.83
Cada persona tiene que pagar: S/. 104.17
¡Advertencia! El monto por persona supera los S/. 100
Process finished with exit code 0
Python3 > Práctica 01 > ejercicio3_bdh.py
```

Figura 5. Resultados del caso del ejercicio 3