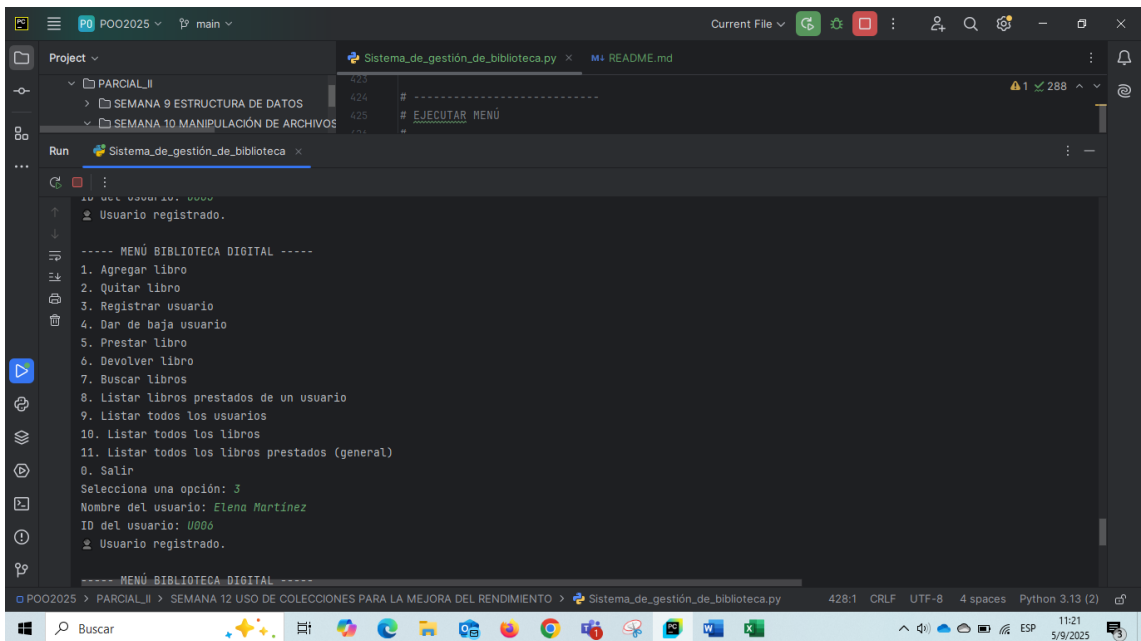


1. Agregar Libro



4. Dar de baja usuario

```
----- MENÚ BIBLIOTECA DIGITAL -----
1. Agregar libro
2. Quitar libro
3. Registrar usuario
4. Dar de baja usuario
5. Prestar libro
6. Devolver libro
7. Buscar libros
8. Listar libros prestados de un usuario
9. Listar todos los usuarios
10. Listar todos los libros
11. Listar todos los libros prestados (general)
0. Salir
Selecciona una opción: 4
ID del usuario a eliminar: 0006
Usuario eliminado.

----- MENÚ BIBLIOTECA DIGITAL -----
1. Agregar libro
2. Quitar libro
3. Registrar usuario
```

5. Prestar Libro

```
----- MENÚ BIBLIOTECA DIGITAL -----
1. Agregar libro
2. Quitar libro
3. Registrar usuario
4. Dar de baja usuario
5. Prestar libro
6. Devolver libro
7. Buscar libros
8. Listar libros prestados de un usuario
9. Listar todos los usuarios
10. Listar todos los libros
11. Listar todos los libros prestados (general)
0. Salir
Selecciona una opción: 5
ID del usuario: 0002
ISBN del libro: 1004
Libro prestado.

----- MENÚ BIBLIOTECA DIGITAL -----
```

6. Devolver Libro

```
----- MENÚ BIBLIOTECA DIGITAL -----
1. Agregar libro
2. Quitar libro
3. Registrar usuario
4. Dar de baja usuario
5. Prestar libro
6. Devolver libro
7. Buscar libros
8. Listar libros prestados de un usuario
9. Listar todos los usuarios
10. Listar todos los libros
11. Listar todos los libros prestados (general)
0. Salir
Selecciona una opción: 6
ID del usuario: 0001
ISBN del libro a devolver: 1003
Libro devuelto.

----- MENÚ BIBLIOTECA DIGITAL -----
```

7. Buscar Libros

The screenshot shows a Windows desktop with a code editor (VS Code) open. The editor displays a Python script named `Sistema_de_gestión_de_biblioteca.py`. The script defines a menu with 11 options and a search function. The terminal window shows the execution of the program, displaying the menu and the results of a search for 'Novela'.

Code Editor Content:

```

1  {
2      "U001": [
3          "1001"
4      ],
5      "U002": [
6          "1002"
7      ]
8  }
9
10 def menu():
11     print("----- MENÚ BIBLIOTECA DIGITAL -----")
12     print("1. Registrar libro")
13     print("2. Quitar libro")
14     print("3. Registrar usuario")
15     print("4. Dar de baja usuario")
16     print("5. Prestar libro")
17     print("6. Devolver libro")
18     print("7. Buscar libros")
19     print("8. Listar libros prestados de un usuario")
20     print("9. Listar todos los usuarios")
21     print("10. Listar todos los libros")
22     print("11. Listar todos los libros prestados (general)")
23     print("0. Salir")
24     print("Selecciona una opción: ")
25     opcion = input()
26     if opcion == "1":
27         print("Registrar libro")
28         titulo = input("Titulo: ")
29         autor = input("Autor: ")
30         categoria = input("Categoria: ")
31         isbn = input("ISBN: ")
32         registrar_libro(titulo, autor, categoria, isbn)
33     elif opcion == "2":
34         print("Quitar libro")
35         titulo = input("Titulo: ")
36         autor = input("Autor: ")
37         categoria = input("Categoria: ")
38         isbn = input("ISBN: ")
39         quitar_libro(titulo, autor, categoria, isbn)
40     elif opcion == "3":
41         print("Registrar usuario")
42         nombre = input("Nombre: ")
43         apellido = input("Apellido: ")
44         dni = input("DNI: ")
45         registrar_usuario(nombre, apellido, dni)
46     elif opcion == "4":
47         print("Dar de baja usuario")
48         nombre = input("Nombre: ")
49         apellido = input("Apellido: ")
50         dni = input("DNI: ")
51         dar_baja_usuario(nombre, apellido, dni)
52     elif opcion == "5":
53         print("Prestar libro")
54         usuario = input("Usuario: ")
55         libro = input("Libro: ")
56         prestar_libro(usuario, libro)
57     elif opcion == "6":
58         print("Devolver libro")
59         usuario = input("Usuario: ")
60         libro = input("Libro: ")
61         devolver_libro(usuario, libro)
62     elif opcion == "7":
63         print("Buscar libros")
64         buscar_por = input("Buscar por (titulo/autor/categoria): ")
65         valor = input("Valor a buscar: ")
66         buscar_libros(buscar_por, valor)
67     elif opcion == "8":
68         print("Listar libros prestados de un usuario")
69         usuario = input("Usuario: ")
70         listar_libros_prestados(usuario)
71     elif opcion == "9":
72         print("Listar todos los usuarios")
73         listar_usuarios()
74     elif opcion == "10":
75         print("Listar todos los libros")
76         listar_libros()
77     elif opcion == "11":
78         print("Listar todos los libros prestados (general)")
79         listar_libros_prestados_general()
80     elif opcion == "0":
81         print("Salir")
82         exit()
83     else:
84         print("Opción no válida")
85
86 if __name__ == "__main__":
87     menu()

```

Terminal Output:

```

C:\Users\user> python Sistema_de_gestión_de_biblioteca.py
----- MENÚ BIBLIOTECA DIGITAL -----
1. Registrar libro
2. Quitar libro
3. Registrar usuario
4. Dar de baja usuario
5. Prestar libro
6. Devolver libro
7. Buscar libros
8. Listar libros prestados de un usuario
9. Listar todos los usuarios
10. Listar todos los libros
11. Listar todos los libros prestados (general)
0. Salir
Selecciona una opción: 7
Buscar por (titulo/autor/categoria): categoria
Valor a buscar: novela
  Libros encontrados:
- Cien Años de Soledad de Gabriel Garcia Márquez [Novela] - ISBN: 1001
- Don Quijote de la Mancha de Miguel de Cervantes [Novela] - ISBN: 1003

```

8. Listar libros prestados de un usuario

The screenshot shows a VS Code editor with a Python file named `Sistema_de_gestión_de_biblioteca.py`. The code defines a menu for a digital library system and a list of books for a specific user.

```

1  {
2      "U001": [
3          "1001"
4      ],
5      "U002": [

```

The Run and Debug console shows the output of the program:

```

----- MENU BIBLIOTECA DIGITAL -----
1. Agregar libro
2. Quitar libro
3. Registrar usuario
4. Dar de baja usuario
5. Prestar libro
6. Devolver libro
7. Buscar libros
8. Listar libros prestados de un usuario
9. Listar todos los usuarios
10. Listar todos los libros
11. Listar todos los libros prestados (general)
0. Salir
Selecciona una opción: 8
ID del usuario: U002
Libros prestados a María López:
- El Principito de Antoine de Saint-Exupéry - ISBN: 1002
- La Odisea de Homero - ISBN: 1004

```

The status bar at the bottom indicates the file is `prestamos.json`, the encoding is `UTF-8`, the format is `4 spaces`, the schema is `No JSON schema`, and the Python version is `Python 3.13 (2)`.

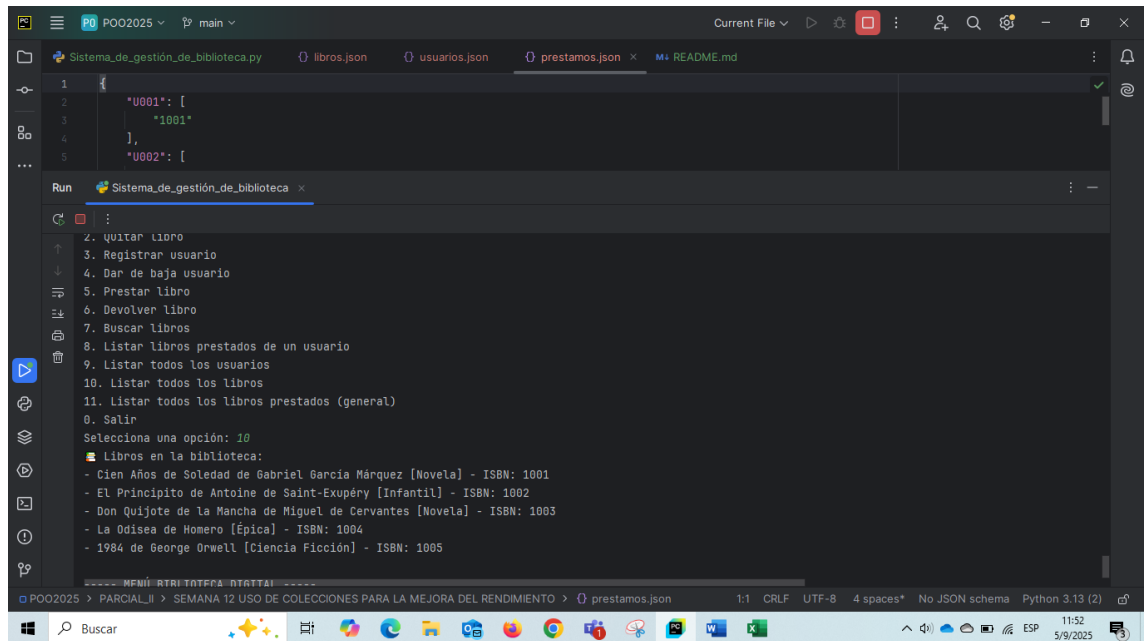
9. Listar todos los usuarios

The screenshot shows a code editor with a Python script for a digital library system. The script is named 'Sistema_de_gestión_de_biblioteca.py'. The code defines a menu with options 1 through 11, including 'Registrar usuario', 'Dar de baja usuario', 'Prestar libro', 'Devolver libro', 'Buscar libros', 'Listar libros prestados de un usuario', 'Listar todos los usuarios', 'Listar todos los libros', 'Listar todos los libros prestados (general)', and 'Salir'. The output of the program shows a list of registered users: Juan Pérez (ID: U001), María López (ID: U002), Carlos Sánchez (ID: U003), Ana Gómez (ID: U004), and Luis Torres (ID: U005). The status bar at the bottom indicates the file is 'prestamos.json', the encoding is 'UTF-8', the line length is '4 spaces', and the Python version is '3.13 (2)'.

```

1  {
2      "U001": [
3          "1001"
4      ],
5      "U002": [
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```

10. Listar todos los libros disponibles



```
1 {
2     "U001": [
3         "1001"
4     ],
5     "U002": [
6         "1002"
7     ],
8     "U003": [
9         "1003"
10    ],
11    "U004": [
12        "1004"
13    ],
14    "U005": [
15        "1005"
16    ],
17    "U006": [
18        "1006"
19    ],
20    "U007": [
21        "1007"
22    ],
23    "U008": [
24        "1008"
25    ],
26    "U009": [
27        "1009"
28    ],
29    "U010": [
30        "1010"
31    ],
32    "U011": [
33        "1011"
34    ],
35    "U012": [
36        "1012"
37    ],
38    "U013": [
39        "1013"
40    ],
41    "U014": [
42        "1014"
43    ],
44    "U015": [
45        "1015"
46    ],
47    "U016": [
48        "1016"
49    ],
50    "U017": [
51        "1017"
52    ],
53    "U018": [
54        "1018"
55    ],
56    "U019": [
57        "1019"
58    ],
59    "U020": [
60        "1020"
61    ],
62    "U021": [
63        "1021"
64    ],
65    "U022": [
66        "1022"
67    ],
68    "U023": [
69        "1023"
70    ],
71    "U024": [
72        "1024"
73    ],
74    "U025": [
75        "1025"
76    ],
77    "U026": [
78        "1026"
79    ],
80    "U027": [
81        "1027"
82    ],
83    "U028": [
84        "1028"
85    ],
86    "U029": [
87        "1029"
88    ],
89    "U030": [
90        "1030"
91    ],
92    "U031": [
93        "1031"
94    ],
95    "U032": [
96        "1032"
97    ],
98    "U033": [
99        "1033"
100   ],
101   "U034": [
102       "1034"
103   ],
104   "U035": [
105       "1035"
106   ],
107   "U036": [
108       "1036"
109   ],
110   "U037": [
111       "1037"
112   ],
113   "U038": [
114       "1038"
115   ],
116   "U039": [
117       "1039"
118   ],
119   "U040": [
120       "1040"
121   ],
122   "U041": [
123       "1041"
124   ],
125   "U042": [
126       "1042"
127   ],
128   "U043": [
129       "1043"
130   ],
131   "U044": [
132       "1044"
133   ],
134   "U045": [
135       "1045"
136   ],
137   "U046": [
138       "1046"
139   ],
140   "U047": [
141       "1047"
142   ],
143   "U048": [
144       "1048"
145   ],
146   "U049": [
147       "1049"
148   ],
149   "U050": [
150       "1050"
151   ],
152   "U051": [
153       "1051"
154   ],
155   "U052": [
156       "1052"
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158   "U053": [
159       "1053"
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165       "1055"
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167   "U056": [
168       "1056"
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170   "U057": [
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203   "U068": [
204       "1068"
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206   "U069": [
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211   ],
212   "U071": [
213       "1071"
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215   "U072": [
216       "1072"
217   ],
218   "U073": [
219       "1073"
220   ],
221   "U074": [
222       "1074"
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224   "U075": [
225       "1075"
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227   "U076": [
228       "1076"
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230   "U077": [
231       "1077"
232   ],
233   "U078": [
234       "1078"
235   ],
236   "U079": [
237       "1079"
238   ],
239   "U080": [
240       "1080"
241   ],
242   "U081": [
243       "1081"
244   ],
245   "U082": [
246       "1082"
247   ],
248   "U083": [
249       "1083"
250   ],
251   "U084": [
252       "1084"
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254   "U085": [
255       "1085"
256   ],
257   "U086": [
258       "1086"
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260   "U087": [
261       "1087"
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263   "U088": [
264       "1088"
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266   "U089": [
267       "1089"
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269   "U090": [
270       "1090"
271   ],
272   "U091": [
273       "1091"
274   ],
275   "U092": [
276       "1092"
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278   "U093": [
279       "1093"
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281   "U094": [
282       "1094"
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284   "U095": [
285       "1095"
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287   "U096": [
288       "1096"
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290   "U097": [
291       "1097"
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293   "U098": [
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