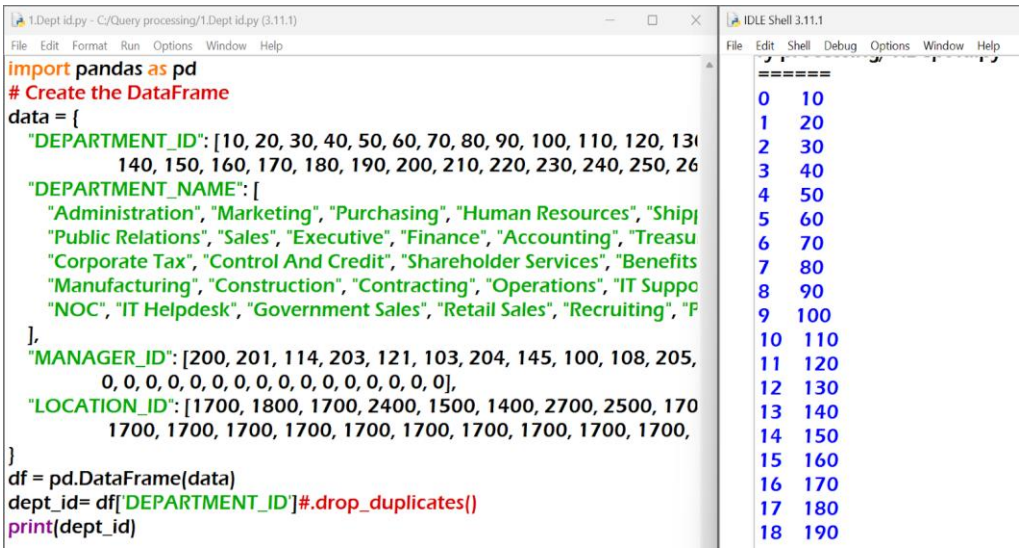
QUERY PROCESSING - LAB PROGRAMS

1. Write a Pandas program to select distinct department id from employees file.

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

CODE & OUTPUT:



1.Dept id.py - C:/Query processing/1.Dept id.py (3.11.1)

File Edit Format Run Options Window Help

```
import pandas as pd
# Create the DataFrame
data = {
   "DEPARTMENT_ID": [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 13(
                     140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 26
   "DEPARTMENT_NAME": [
      "Administration", "Marketing", "Purchasing", "Human Resources", "Shipp
      "Public Relations", "Sales", "Executive", "Finance", "Accounting", "Treasu
      "Corporate Tax", "Control And Credit", "Shareholder Services", "Benefits
      "Manufacturing", "Construction", "Contracting", "Operations", "IT Suppo
      "NOC", "IT Helpdesk", "Government Sales", "Retail Sales", "Recruiting", "F
   ],
   "MANAGER_ID": [200, 201, 114, 203, 121, 103, 204, 145, 100, 108, 205,
                  0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0],
   "LOCATION_ID": [1700, 1800, 1700, 2400, 1500, 1400, 2700, 2500, 170
                   1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700,
}
df = pd.DataFrame(data)
dept_id= df['DEPARTMENT_ID']#.drop_duplicates()
print(dept_id)
```


IDLE Shell 3.11.1

File Edit Shell Debug Options Window Help

```
======
0    10
1    20
2    30
3    40
4    50
5    60
6    70
7    80
8    90
9   100
10  110
11  120
12  130
13  140
14  150
15  160
16  170
17  180
18  190
```