Online Python Compiler (Inter | balasumanth1984-ux/project-c | balasumanth1984-ux (Rohitha

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Programiz Python Online Compiler

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main.py

Share | Run

Output | Clear

```
70
71 def menu():
72     while True:
73         print("\n==== Student Database ====")
74         print("1. Add Student")
75         print("2. Delete Student")
76         print("3. Search Student")
77         print("4. Filter Students")
78         print("5. Top-K Students")
79         print("6. Exit")
80         print("==========================")
81         choice = input("Enter choice: ").strip()
82         if choice == "1":
83             add_student()
84         elif choice == "2":
85             delete_student()
86         elif choice == "3":
87             search_student()
88         elif choice == "4":
89             filter_students()
90         elif choice == "5":
91             top_k_students()
92         elif choice == "6":
```

```
==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 1
Enter ID: 1
Enter Name: Teju
Enter Age: 19
Enter Course: DataScience
Enter Marks: 89
✅ Student added successfully!

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
```

Search

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main.py

Share Run

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71 def menu():
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```

Output Clear

```
5. Top-K Students
6. Exit
==========================
Enter choice: 1
Enter ID: 2
Enter Name: Kavya
Enter Age: 18
Enter Course: DataScience
Enter Marks: 90
✅ Student added successfully!

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 1
Enter ID: 3
Enter Name: Nikhil
Enter Age: 18
```

main.py

Share Run

```
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75         print("2. Delete Student")
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89             filter_students()
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91             top_k_students()
92         elif choice == "6":
```

Output Clear

```
Enter Age: 18
Enter Course: ComputerScience
Enter Marks: 95
✅ Student added successfully!

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 2
Enter Student ID to delete: 2
🗑️ Student deleted successfully!

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
```

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```

Output Clear

```
5. Top-K Students
6. Exit
==========================
Enter choice: 3
Enter ID or Name to search: 1
{'id': '1', 'name': 'Teju', 'age': 19, 'course': 'DataScience', 'marks': 89.0}

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 4
Filter Options:
1. By Course
2. By Minimum Marks
Enter choice: 1
Enter course name: DataScience
{'id': '1', 'name': 'Teju', 'age': 19, 'course': 'DataScience', 'marks': 89.0}
```

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91             top_k_students()
92         elif choice == "6":
```

Output Clear

```
==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 5
Enter K value: 3
🏆 Top 3 Students:
1. Nikhil (Marks: 95.0)
2. Teju (Marks: 89.0)

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
```

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90         elif choice == "5":
91             top_k_students()
92         elif choice == "6":
```

Output Clear

```
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 5
Enter K value: 3
🏆 Top 3 Students:
1. Nikhil (Marks: 95.0)
2. Teju (Marks: 89.0)

==== Student Database ====
1. Add Student
2. Delete Student
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice: 6
👋 Exiting... Goodbye!

=== Code Execution Successful ===
```

Search

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