```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
==== 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:  Yoshi
Enter Age:  20
Enter Course:  Data Science
Enter Marks:  96
✅ Student added successfully!
```

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
==== 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:  2
Enter Name:  Jashu
Enter Age:  19
Enter Course:  Computer Science
Enter Marks:  92
✅ Student added successfully!

==== Student Database ====
```

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
✅ 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:  Harshi
Enter Age:  21
Enter Course:  Artificial Intelligence
Enter Marks:  94
✅ Student added successfully!
```

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
--------------------------
Enter choice:  4
Filter Options:
1. By Course
2. By Minimum Marks
Enter choice:  1
Enter course name:  Data Science
{'id': '1', 'name': 'Yoshi', 'age': 20, 'course': 'Data Science', 'marks': 96.0}

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

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
🏆 Top 3 Students:
1. Yoshi (Marks: 96.0)
2. Harshi (Marks: 94.0)

==== 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. Yoshi (Marks: 96.0)
2. Harshi (Marks: 94.0)
```

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
==========================
Enter choice:  5
Enter K value:  3
🏆 Top 3 Students:
1. Yoshi (Marks: 96.0)
2. Harshi (Marks: 94.0)

==== 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!
```

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
--------------------------
Enter choice:  5
Enter K value:  3
🏆 Top 3 Students:
1. Yoshi (Marks: 96.0)
2. Harshi (Marks: 94.0)

==== 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
```

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
3. Search Student
4. Filter Students
5. Top-K Students
6. Exit
==========================
Enter choice:  3
Enter ID or Name to search:  1
{'id': '1', 'name': 'Yoshi', 'age': 20, 'course': 'Data Science', 'marks': 96.0}

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

[ ]:

```
        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("⚠️ Invalid choice. Try again.")

menu()
```

```
==== 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
```

[ ]: