Untitled-1

```
 1  Question1
 2  boxing
 3  Question2
 4  five
 5  boxing
 6  wizards
 7  Question3
 8  five boxing wizards
 9  Question4
10  void addStudent(struct Student students[], int *count) {
11  void displayStudents(const struct Student students[], int count) {
12  void searchStudent(const struct Student students[], int count) {
13  int main() {
14  Question5
15  struct Student {
16      struct Student students[50];  // Assume a maximum of 50 students
17  Question6
18  #include <stdio.h>
19  #include <string.h>
20
21  struct Student {
22      char name[50];
23      int rollNumber;
24      float score;
25  };
26
27  void addStudent(struct Student students[], int *count) {
28      printf("Enter student name: ");
29      scanf("%s", students[*count].name);
30
31      printf("Enter roll number: ");
32      scanf("%d", &students[*count].rollNumber);
33
34      printf("Enter score: ");
35      scanf("%f", &students[*count].score);
36
37      (*count)++;
38  }
39
40  void displayStudents(const struct Student students[], int count) {
41      printf("\nStudent Records:\n");
42      printf("%-20s %-15s %-10s\n", "Name", "Roll Number", "Marks");
43      for (int i = 0; i < count; i++) {
44          printf("%-20s %-15d %-10.2f\n", students[i].name, students[i].rollNumber,
    students[i].score);
45      }
46  }
47
```

```c
48  void searchStudent(const struct Student students[], int count) {
49      int rollNumber;
50      printf("Enter roll number to search: ");
51      scanf("%d", &rollNumber);
52
53      int found = 0;
54      for (int i = 0; i < count; i++) {
55          if (students[i].rollNumber == rollNumber) {
56              printf("Student Found:\n");
57              printf("%-20s %-15d %-10.2f\n", students[i].name, students[i].rollNumber,
    students[i].score);
58              found = 1;
59              break;
60          }
61      }
62
63      if (!found) {
64          printf("Student with roll number %d not found.\n", rollNumber);
65      }
66  }
67
68  int main() {
69      struct Student students[50];  // Assume a maximum of 50 students
70      int count = 0;
71      int choice;
72
73      // Hard code details for 10 students
74      for (int i = 0; i < 10; i++) {
75          strcpy(students[count].name, "StudentName");
76          students[count].rollNumber = 1000 + i;
77          students[count].score = 75.5 + i;
78
79          count++;
80      }
81
82      do {
83          printf("\nStudent Database System\n");
84          printf("1. Add Student\n");
85          printf("2. Display Students\n");
86          printf("3. Search Student\n");
87          printf("4. Exit\n");
88          printf("Enter your choice: ");
89          scanf("%d", &choice);
90
91          switch (choice) {
92              case 1:
93                  addStudent(students, &count);
94                  break;
95              case 2:
96                  displayStudents(students, count);
```

```
 97                    break;
 98                case 3:
 99                    searchStudent(students, count);
100                    break;
101                case 4:
102                    printf("Exiting the program. Goodbye!\n");
103                    break;
104                default:
105                    printf("Invalid choice. Please try again.\n");
106            }
107        } while (choice != 4);
108
109        return 0;
110 }
111 Question7
112 void addStudent(struct Student students[], int *count) {
113 void displayStudents(const struct Student students[], int count) {
114 void searchStudent(const struct Student students[], int count) {
115 Question8
116 #include <stdio.h>
117 #include <string.h>
118 Question9
119 4
120 Question10
121 addStudent
122 displayStudents
123 searchStudent
124 main
```