Yash Yadav(107)

```java
package LibraryManagment;
import java.util.ArrayList;
import java.util.Scanner;

class Student {
    String name;
    String password;

    Student(String name, String password) {
        this.name = name;
        this.password = password;
    }
}

public class DSA1 {

    public static void main(String[] args) {
```

```java
        Scanner sc = new Scanner(System.in);
        ArrayList<Student> studentList = new ArrayList<>();

        int choice = 0;

        while (choice != 4) {
            System.out.println("\n--- Student Application ---");
            System.out.println("1. Signup (Add Student)");
            System.out.println("2. Show All Students");
            System.out.println("3. Search Student by Name");
            System.out.println("4. Exit");

            System.out.print("Enter your choice: ");
            choice = sc.nextInt();
            sc.nextLine();
            if (choice == 1) {
                System.out.print("Enter Username: ");
                String uname = sc.nextLine();
```

```java
31
32            System.out.print("Enter your choice: ");
33            choice = sc.nextInt();
34            sc.nextLine();
35            if (choice == 1) {
36                System.out.print("Enter Username: ");
37                String uname = sc.nextLine();
38
39                System.out.print("Enter Password: ");
40                String upass = sc.nextLine();
41
42                studentList.add(new Student(uname, upass));
43                System.out.println("Student Added Successfully!");
44            }
45            else if (choice == 2) {
46                System.out.println("\n--- All Students ---");
47                for (Student s : studentList) {
48                    System.out.println("Name: " + s.name + ", Password: " + s.password);
49                }
```

```java
            else if (choice == 3) {
                System.out.print("Enter student name to search: ");
                String searchName = sc.nextLine();

                boolean found = false;
                for (Student s : studentList) {
                    if (s.name.equalsIgnoreCase(searchName)) {
                        System.out.println("Student Found!");
                        System.out.println("Name: " + s.name + ", Password: " + s.password);
                        found = true;
                        break;
                    }
                }

                if (!found) {
                    System.out.println("Student Not Found!");
                }
```

```
1. Signup (Add Student)
2. Show All Students
3. Search Student by Name
4. Exit
Enter your choice: 1
Enter Username: Yash
Enter Password: 123
Student Added Successfully!

--- Student Application ---
1. Signup (Add Student)
2. Show All Students
3. Search Student by Name
4. Exit
Enter your choice:
```