

PROGRAMMING PRACTICES(MINI PROJECT)

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1 Introduction

I build a simple program for Student Information Management System which can perform the following operations:

1. Store the First name of the student.
2. Store the Last name of the student
3. Store the unique Roll number for every student.
4. Store the courses registered by the student.

2 Approach

The idea is to form an individual functions for every operation. All the functions are unified together to form software.

1. Add Student Details: Get data from user and add a student to the list of students. While adding the students into the list, check for the uniqueness of the roll number.
2. Find the student by the given roll number: This function is to find the student record for the given roll number and print the details.
3. Find the student by the given first name: This function is to find all the students with the given first name and print their details.
4. Count of Students: This function is to print the total number of students in the system
5. Delete a student: This function is to delete the student record for the given roll number.
6. Update Student: This function is to update the student records. This function does not ask for new details for all fields but the user should be able to pick and choose what he wants to update.

3 Output

```

The Task that you want to perform
1. Add the Student Details
2. Find the Student Details by Roll Number
3. Find the Student Details by First Name
4. Find the Total number of Students
5. Delete the Students Details by Roll Number
6. Update the Students Details by Roll Number
7. To Exit
Enter your choice to find the task
1
Add the Students Details
-----
Enter the first name of student
c
Enter the last name of student
t
Enter the Roll Number
1
Enter the course ID
22
11
33
44
55

```

Figure 1: output 1

```

The Task that you want to perform
1. Add the Student Details
2. Find the Student Details by Roll Number
3. Find the Student Details by First Name
4. Find the Total number of Students
5. Delete the Students Details by Roll Number
6. Update the Students Details by Roll Number
7. To Exit
Enter your choice to find the task
2
Enter the Roll Number of the student
1
The Students Details are
The First name is c
The Last name is t
Enter the course ID
The course ID are 22
The course ID are 11
The course ID are 33
The course ID are 44
The course ID are 55

```

Figure 2: output 2

```

The Task that you want to perform
1. Add the Student Details
2. Find the Student Details by Roll Number
3. Find the Student Details by First Name
4. Find the Total number of Students
5. Delete the Students Details by Roll Number
6. Update the Students Details by Roll Number
7. To Exit
Enter your choice to find the task
3
Enter the First Name of the student
c
The Students Details are
The First name is c
The Last name is t
The Roll Number is 1
Enter the course ID
The course ID are 22
The course ID are 11
The course ID are 33
The course ID are 44
The course ID are 55

```

Figure 3: output 3

```

The Task that you want to perform
1. Add the Student Details
2. Find the Student Details by Roll Number
3. Find the Student Details by First Name
4. Find the Total number of Students
5. Delete the Students Details by Roll Number
6. Update the Students Details by Roll Number
7. To Exit
Enter your choice to find the task
4
The total number of Student is 1
you can have a max of 50 students
you can have 49 more students

```

Figure 4: output 4

```
The Task that you want to perform
1. Add the Student Details
2. Find the Student Details by Roll Number
3. Find the Student Details by First Name
4. Find the Total number of Students
5. Delete the Students Details by Roll Number
6. Update the Students Details by Roll Number
7. To Exit
Enter your choice to find the task
5
Enter the Roll Number which you want to delete
1
The Roll Number is removed Successfully
```

Figure 5: output 5

```
The Task that you want to perform
1. Add the Student Details
2. Find the Student Details by Roll Number
3. Find the Student Details by First Name
4. Find the Total number of Students
5. Delete the Students Details by Roll Number
6. Update the Students Details by Roll Number
7. To Exit
Enter your choice to find the task
6
Enter the roll number to update the entry : 1
1. first name
2. last name
3. roll no.
4. courses
1
Enter the new first name :
chirayu
UPDATED SUCCESSFULLY.
```

Figure 6: output 6