

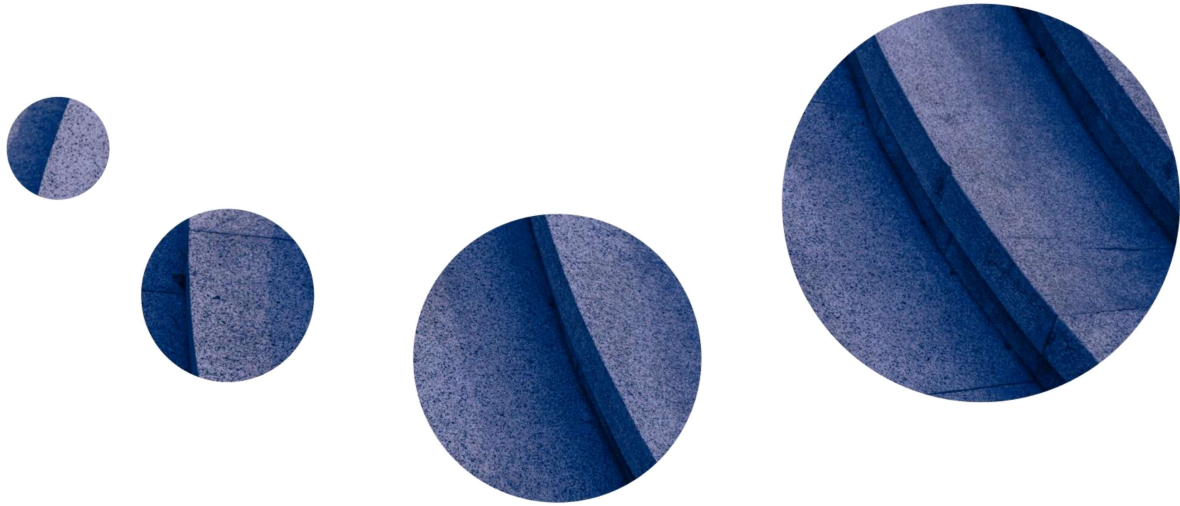
MINI PROJECT
RECORD

RUPAN NAG

CSE-GT Q1

RA2111051010052

Ct-4

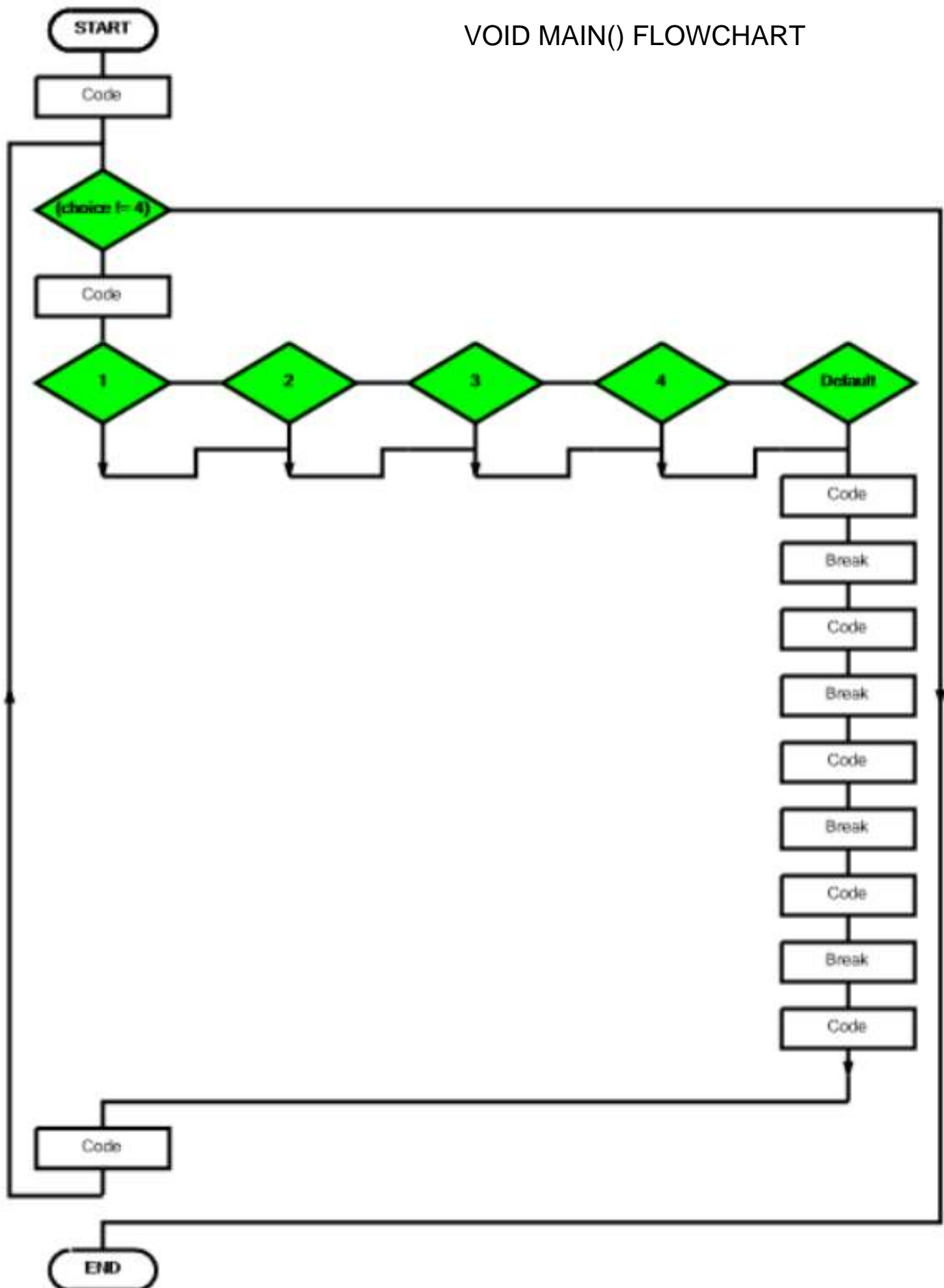


MINI-PROJECT

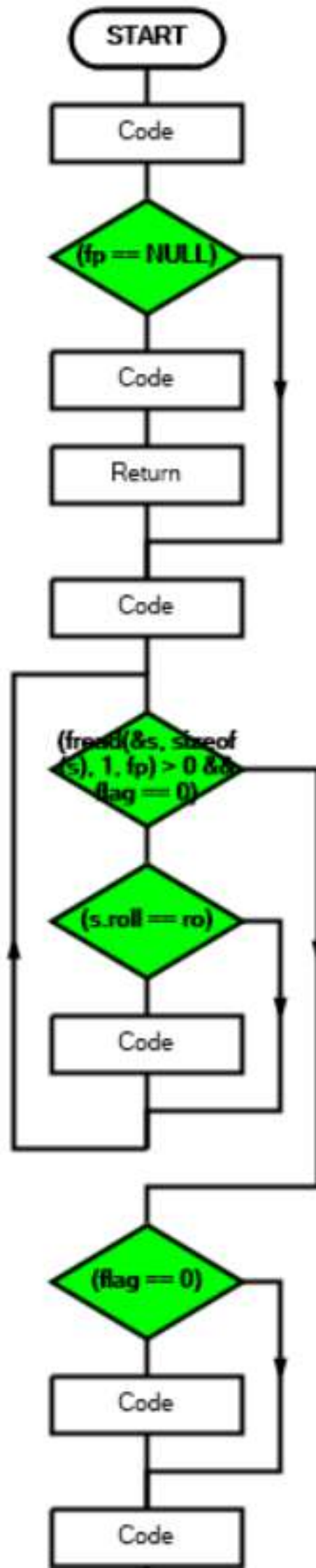
STUDENT MANAGEMENT SYSTEM.

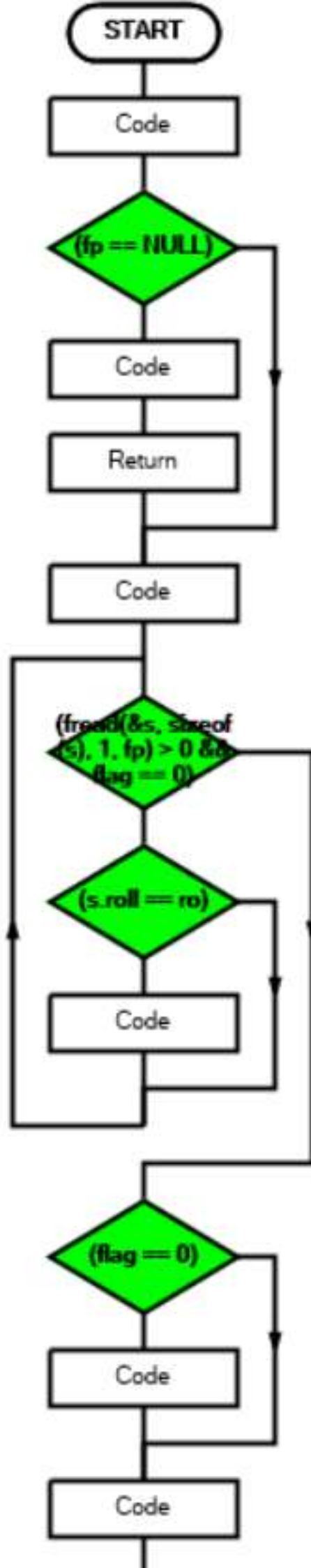
- Main objective- to make a data management system using file input output.
- Using this program we can insert, update, search student records.
- Record includes name, roll number, section, and obtained marks.
- Usage of data structure is done to store characters and numbers together.
- Files are used to permanently store the data.
- We can search for the saved records using fseek function,
- A flag variable is also used to get a true/false condition.
- Exit option is also made to quit the program.

VOID MAIN() FLOWCHART



VOIDSEARCH()
FLOWCHART





VOID UPDATE()F

[illegible]

```

85
86     {
87         printf("\n\n\tStudent Database Recorded Successfully !!!\n");
88     }
89     fclose(fp);
90
91     // close the file fp
92     // as soon as the file closes by the help of buffer(fw) data write in the 2nd memory from
the 1st memory
93
94     printf("\n\t\tRecord Updated !!!\n\n");
95 }
96 void search()
97 {
98     int ro, flag = 0;
99
100     //as soon flag value is 0 we go into the loop and if it is 1 we go outside the loop
101     // ro is taken for roll no.
102
103     FILE *fp;
104     fp = fopen("stu.txt", "r");
105
106     // (r), is use to open file in read mode
107     if (fp == NULL) //no input given previously
108     {
109         printf("\n\t\tError : File Does Not Exist !!! ");
110         return;
111     }
112     printf("\n\n\tEnter Student Roll No. Which You Want To Search : ");
113     scanf("%d", &ro);
114     while (fread(&s, sizeof(s), 1, fp) > 0 && flag == 0)
115     {
116         if (s.roll == ro)
117         {
118             // ro is the roll no. that user has entered
119
120             {
121                 flag = 1;
122                 printf("\n\n\tSearch Successful And Student Records Is as follows");
123                 printf("\nRoll No\t\tName of Student\t\tSection\t\tMarks\n");
124                 printf("%d\t\t\t%s \t\t %s \t\t%d\n\n", s.roll, s.name, s.sec, s.marks);
125             }
126         }
127         if (flag == 0)
128         {
129             printf("\n\n\t\t!!! No Record Found !!!\n\n");
130         }
131         fclose(fp);
132     }
133 void update()
134 {
135     int ro, flag = 0;
136     FILE *fp;
137     fp = fopen("stu.txt", "r+");
138
139     // r+ is use to open file for reading and writing
140
141     if (fp == NULL)
142     {
143         printf("\n\t\tError : File Does Not Exist");
144         return;
145     }
146     printf("\n\n\tEnter Roll Number Of Students Whose Record You Want To Update :");
147     scanf("%d", &ro);
148     printf("\n\n\t\t*** Previously Stored Record Of Given Roll No. ***\n\n");
149     while (fread(&s, sizeof(s), 1, fp) > 0 && flag == 0)
150     {
151         if (s.roll == ro)
152         {
153             flag = 1;
154             printf("\nRoll No\t\tName of Student\t\tSection\t\tMarks\n");
155             printf("%d\t\t\t%s \t\t %s \t\t%d\n", s.roll, s.name, s.sec, s.marks);
156             printf("\n\n\t\t*** Now Enter The New Record Of The Student ***\n\n");
157             printf("\n\t\tUpdated Student Roll No.: ");
158             scanf("%d", &s.roll);
159             fflush(stdin);
160             printf("\n\t\tUpdated Student Name: ");
161             gets(s.name);
162             printf("\n\t\tUpdated Student Section: ");
163             gets(s.sec);
164             printf("\n\t\tUpdated Student Marks: ");
165             scanf("%d", &s.marks);
166             fseek(fp, -(long)sizeof(s), 1);
167

```

```
168         // fseek, it is a update function, minus is used to update file from beginning
169
170         fwrite(&s, sizeof(s), 1, fp);
171         printf("\n\n\t\tRecord Updated\n\n\n");
172     }
173 }
174 if (flag == 0)
175 {
176     printf("\n\t\tError : Something Went Wrong !!!\n\n");
177 }
178 fclose(fp);
179 }
180
```



```
"C:\Users\rupan\OneDrive\Documents\c practice\vscode\miniproject\exe"
rupan.nag(RAZ111051010052)

#####
'WELCOME TO SRM STUDENT DATABASE'
#####

AVAILABLE OPTIONS:
1: Insert Student record
2: Search Student record
3: Update Student record
4: Exit

Enter Your Choice :
```

```
"C:\Users\rupan\OneDrive\Documents\c practice vscode\miniproject.exe"

^^^^ENTER NEW STUDENT DATA^^^^
Enter Student Roll Number : 1
Enter Student Name : rupan neg
Enter Student Section : q1
Enter Student Total Marks : 10

Student Database Recorded Successfully !!!

Record Updated !!!

rupan neg(RA2111051010052)

#####
'WELCOME TO SRM STUDENT DATABASE'
#####

AVAILABLE OPTIONS:
1: Insert Student record
2: Search Student record
3: Update Student record
4: Exit

Enter Your Choice : _
```

```
"C:\Users\rupan\OneDrive\Documents\c practice vscode\miniproject.exe"

Enter Student Roll No. Which You Want To Search : 1

Search Sucessful And Student Records Is as follows
Roll No      Name of Student      Section      Marks
1            rupan nag                q1           10

                                         rupan nag(RA2111051010052)

#####
"WELCOME TO SRM STUDENT DATABASE"
#####

AVAILABLE OPTIONS:
1: Insert Student record
2: Search Student record
3: Update Student record
4: Exit

Enter Your Choice :
```

```
"C:\Users\rupan\OneDrive\Documents\c practice vscode\miniproject.exe"

Enter Roll Number Of Students Whose Record You Want To Update :1

*** Previously Stored Record Of Given Roll No. ***

Roll No      Name of Student      Section      Marks
1            rupan nag            q1           10

*** Now Enter The New Record Of The Student ***

Updated Student Roll No.: 2
Updated Student Name: sujoy nag
Updated Student Section: q2
Updated Student Marks: 1

Record Updated

rupan nag(RA2111051010052)

#####
'WELCOME TO SRM STUDENT DATABASE'
#####

AVAILABLE OPTIONS:
1: Insert Student record
2: Search Student record
3: Update Student record
4: Exit

Enter Your Choice : _
```