



PES UNIVERSITY
(Established under Karnataka Act No. 16 of 2013)
100 Ft. Road, BSK III Stage, Bengaluru – 560 085

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

Course Title: Problem Solving with C Laboratory		
Course code: UE19CS152		
Semester : II sem	Section:L1	Team Id:
SRN:PES2UG19CS086	Name:BHARAT KUMAR NAIK	
SRN:PES2UG19CS186	Name:KIRAN B S	
SRN:PES2UG19CS193	Name:KOUSHIK P L	
SRN:	Name:	

PROJECT REPORT

Problem Statement:- STUDENT RECORD MANAGEMENT SYSTEM

Description: This concept used in colleges to maintain the student details saving and if we want any details we search and modification also tried in our code and if student left the college we can delete the that details and after we can generate marks sheet also.

C-concepts used: structer concept, file concept, functions concepts, some basic concepts of c programs some extra functions also used here.

Learning Outcome: we learn about how handel the file(rb+,wb+), some special function we learnt here.

Output Screenshots

```
MinGW Command Prompt - a

=====[STUDENT] [INFORMATION] [SYSTEM]=====
=====
1. ADD Student
2. DELETE Student
3. MODIFY Student
4. DISPLAY Student LIST
5. Search Record
6. DELETE entire file
7. MARKS SHEET generation
8. EXIT

Enter Your Option :--> 1
Enter the no of students you wanted to enter:
```

```
MinGW Command Prompt - a

=====[STUDENT] [INFORMATION] [SYSTEM]=====

Enter Roll number      111

111 rollno's reg no is :1
Enter Full Name of Student      kiran

Enter Branch      cse

Enter the student age:18

Enter the student CONTACT NO:7259211921

Enter the student ADDRESS :hirehalli

Enter the student CHEMISTRY MARKS:100

Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100_
```

```
MinGW Command Prompt - a

=====[STUDENT] [INFORMATION] [SYSTEM]=====

Enter Roll number      111

111 rollno's reg no is :1

Enter Full Name of Student      kiran

Enter Branch      cse

Enter the student age:18

Enter the student CONTACT NO:7259211921

Enter the student ADDRESS :hirehalli

Enter the student CHEMISTRY MARKS:100

Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100

Enter the student MATHS MARKS:100

Type here to search
```

```
MinGW Command Prompt - a

=====[STUDENT] [INFORMATION] [SYSTEM]=====

Enter Roll number      123

123 rollno's reg no is :1

Enter Full Name of Student      kiran

Enter Branch      cse

Enter the student age:18

Enter the student CONTACT NO:7
contact no should be 10 digit7259211921

Enter the student ADDRESS :hirehalli

Enter the student CHEMISTRY MARKS:100

Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100

Enter the student MATHS MARKS:100

Type here to search
```

```
"C:\Users\Kiran B S\Downloads\Untitled1.exe"

=====[STUDENT] [INFORMATION] [SYSTEM]=====
-----
1. ADD Student
2. DELETE Student
3. MODIFY Student
4. DISPLAY Student LIST
5. Search Record
6. DELETE entire file
7. MARKS SHEET generation
8. EXIT

Enter Your Option :--> 1
enter the no of students you wanted to enter:3
```

```
"C:\Users\Kiran B S\Downloads\Untitled1.exe"

=====[STUDENT] [INFORMATION] [SYSTEM]=====

Enter Roll number      1234

1234 rollno's reg no is :1
Enter Full Name of Student   kiran

Enter Branch      cse

Enter the student age:18

Enter the student CONTACT NO:7259211921

Enter the student ADDRESS :hirehalli

Enter the student CHEMISTRY MARKS:100

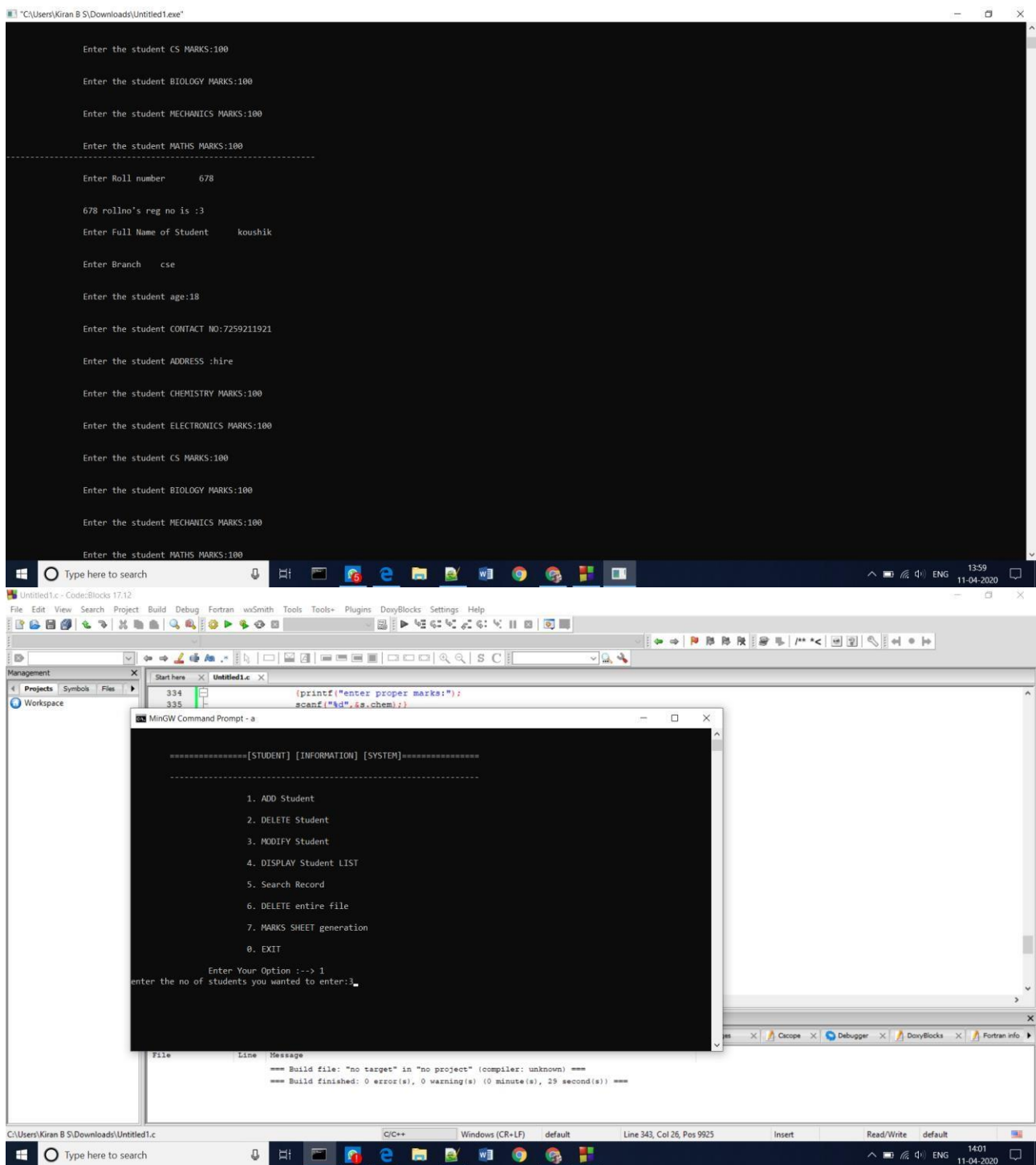
Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100

Enter the student MATHS MARKS:100
```



```
MinGW Command Prompt - a

Enter Branch    cse

Enter the student age:18

Enter the student CONTACT NO:7259211922

Enter the student ADDRESS :hirehallla

Enter the student CHEMISTRY MARKS:100

Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100

Enter the student MATHS MARKS:100_
```

```
MinGW Command Prompt - a

Enter Branch    cse

Enter the student age:18

Enter the student CONTACT NO:7249219211

Enter the student ADDRESS :hire

Enter the student CHEMISTRY MARKS:100

Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100

Enter the student MATHS MARKS:100

-----

Enter Roll number    567

567 rollno's reg no is :6

Enter Full Name of Student    koushik

Enter Branch    cse

Enter the student age:18

Enter the student CONTACT NO:7259211922

Enter the student ADDRESS :hirehallla
```

```
MinGW Command Prompt - a

===== [STUDENT] [INFORMATION] [SYSTEM] =====
-----

1. ADD Student
2. DELETE Student
3. MODIFY Student
4. DISPLAY Student LIST
5. Search Record
6. DELETE entire file
7. MARKS SHEET generation
8. EXIT

Enter Your Option :--> 7

Enter Roll number      123

Enter Full Name of Student      kiran

Enter Branch      cse

Enter the student CHEMISTRY MARKS:100

Enter the student ELECTRONICS MARKS:100

Enter the student CS MARKS:100

Enter the student BIOLOGY MARKS:100

Enter the student MECHANICS MARKS:100

Enter the student MATHS MARKS:100
```

```
MinGW Command Prompt - a

===== [STUDENT] [INFORMATION] [SYSTEM] =====

MATHS MARKS=6

serial no=1

ROLL NO=1
NAME:b
BRANCH:dh
AGE=1
CONTACT NO=1
ADDRESS=hdh
CHEMISTRY MARKS=1
ELECTRONICS MARKS=2
CS MARKS=3
BIOLOGY MARKS=4
MECHANICS MARKS=5
MATHS MARKS=6

serial no=1

ROLL NO=1
NAME:d
BRANCH:g
AGE=4
CONTACT NO=5
ADDRESS=g
CHEMISTRY MARKS=5
ELECTRONICS MARKS=2
CS MARKS=3
BIOLOGY MARKS=4
MECHANICS MARKS=5
MATHS MARKS=6

reg no=5
ROLL NO=123
NAME:kiran
BRANCH:cse
AGE=18
CONTACT NO=7259211921
ADDRESS=h1=sha111
CHEMISTRY MARKS=100
ELECTRONICS MARKS=99
CS MARKS=100
BIOLOGY MARKS=99
MECHANICS MARKS=100
MATHS MARKS=100
```


MinGW Command Prompt - a

```
ROLL NO=1  
NAME=d  
BRANCH:g  
AGE=4  
CONTACT NO=5  
ADDRESS=g  
CHEMISTRY MARKS=5  
ELECTRONICS MARKS=2  
CS MARKS=3  
BIOLOGY MARKS=4  
MECHANICS MARKS=5  
MATHS MARKS=6
```

```
reg no=5  
ROLL NO=123  
NAME:kiran  
BRANCH:cse  
AGE=18  
CONTACT NO=7259211921  
ADDRESS=hirehalli  
CHEMISTRY MARKS=100  
ELECTRONICS MARKS=99  
CS MARKS=100  
BIOLOGY MARKS=99  
MECHANICS MARKS=100  
MATHS MARKS=100
```

Press any key to continue . . .

Type here to search



14:07
11-04-2020

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Input

sh: 1: cls: not found

[STUDENT] [INFORMATION] [SYSTEM]

1. ADD Student

2. DELETE Student

3. MODIFY Student

4. DISPLAY Student LIST

5. Search Record

6. DELETE entire file

7. MARKS SHEET generation

0. EXIT

Enter Your Option :--> 6

sh: 1: cls: not found


file deleted

[STUDENT] [INFORMATION] [SYSTEM]

1. ADD Student

2. DELETE Student

Type here to search



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main.c

studentInfo.txt

TempFile

190

191

192 //=====DELETING A RECORD FROM LIST =====

193 void del(FILE * fp)

194 {

195 FILE *fpt;

196 int r, k;

197 printf("Enter the Roll no you want to delete :");

198 scanf("%d", &r);

199 if (r == 0)

200 printf("Roll no %d is not available in the file\n", r);

201 else

202 {

203 fp = fopen("studentInfo.txt", "r");

204 fpt = fopen("TempFile", "w");

205 while (fread(&s, sizeof(s), 1, fp))

206 {

207 k = s.roll;

208 if (k != r)

209 fwrite(&s, sizeof(s), 1, fpt);

210 }

211 fclose(fp);

212 fclose(fpt);

213 fp = fopen("studentInfo.txt", "w");

214 fpt = fopen("TempFile", "r");

215 while (fread(&s, sizeof(s), 1, fpt))

216 fwrite(&s, sizeof(s), 1, fp);

217 printf("\nRECORD DELETED\n");

218 fclose(fp);

219 fclose(fpt);

220 }


221 }

222 }

223 }

input

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Input

123 rollno's reg no is :1

Enter Full Name of StudentBHARAT

Enter BranchCSE

Enter the student age:18

Enter the student CONTACT NO:1123456789

Enter the student ADDRESS :HSDHJ

Enter the student CHEMISTRY MARKS:22

Enter the student ELECTRONICS MARKS:22

Enter the student CS MARKS:22


Enter the student BIOLOGY MARKS:22

Enter the student MECHANICS MARKS:22

Enter the student MATHS MARKS:22

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Input

[STUDENT] [INFORMATION] [SYSTEM]

=====

CREATED BY

BHARAT KUMAR NAIK

KIRAN B S

KOUSHIK P L

sh: 1: cls: not found

press any key to continue

=====

[STUDENT] [INFORMATION] [SYSTEM]

=====

1. ADD Student

2. DELETE Student

3. MODIFY Student

4. DISPLAY Student LIST


5. Search Record


6. DELETE entire file


7. MARKS SHEET generation

0. EXIT




Enter Your Option :-->


 Type here to search



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```
Input
Enter the student MECHANICS MARKS:22

Enter the student MATHS MARKS:22
*****
=====
MARKSHEET OF COLLEGE:PES UNIVERSITY
=====
Roll No.: 123 Student Name: XXX
-----
SUBJECT                MARKS
-----
MATHS                   22
MECHANICS               22
BIOLOGY                 44
ELECTRONICS             33
COMPUTER SCIENCE       22
CHEMISTRY               33
-----
Total Marks:           176
-----

sh: 1: cls: not found

===== [STUDENT] [INFORMATION] [SYSTEM] =====
-----

1. ADD Student

2. DELETE Student

3. MODIFY Student
```


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Input

5. Search Record

6. DELETE entire file

7. MARKS SHEET generation

0. EXIT

Enter Your Option :--> 5

Enter Register Number of student :2

reg NO:2

ROLL NO=123

NAME:BHARAT

BRANCH:CSE

AGE=19

CONTACT NO=1234567890

ADDRESS=JHSD

CHEMISTRY MARKS=22

ELECTRONICS MARKS=22

CS MARKS=22

BIOLOGY MARKS=22

MECHANICS MARKS=22

MATHS MARKS=22

sh: 1: cls: not found

[STUDENT] [INFORMATION] [SYSTEM]

1. ADD Student

2. DELETE Student

Windows taskbar with search bar and application icons

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Input

[STUDENT] [INFORMATION] [SYSTEM]

1. ADD Student

2. DELETE Student

3. MODIFY Student

4. DISPLAY Student LIST

5. Search Record

6. DELETE entire file

7. MARKS SHEET generation

0. EXIT

Enter Your Option :--> 2

Enter Register Number of student to be delete:1

sh: 1: cls: not found

record deleted

[STUDENT] [INFORMATION] [SYSTEM]

1. ADD Student

2. DELETE Student


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Input


[STUDENT] [INFORMATION] [SYSTEM]

reg NO:1
ROLL NO=1234
NAME:KIRAN
BRANCH:CSE
AGE=19
CONTACT NO=1234567890
ADDRESS=JHSD
CHEMISTRY MARKS=22
ELECTRONICS MARKS=22
CS MARKS=22
BIOLOGY MARKS=22
MECHANICS MARKS=22
MATHS MARKS=22

<div>reg NO:2
ROLL NO=123
NAME:BHARAT
BRANCH:CSE
AGE=19
CONTACT NO=1234567890
ADDRESS=JHSD
CHEMISTRY MARKS=22
ELECTRONICS MARKS=22
CS MARKS=22
BIOLOGY MARKS=22
MECHANICS MARKS=22
MATHS MARKS=22

reg no=4
ROLL NO=124
NAME:KIRAN

Type here to search



Name and Signature of the Faculty