



KONGU ENGINEERING COLLEGE
(Autonomous)
PERUNDURAI ERODE – 638 060



Student Database Management System

A Project Report
submitted by

Giridharan S
22ITR025

Ashoknirmal P S
22ITR009

Bharath M
22ITR012

PYTHON PROGRAMMING AND FRAMEWORKS (22ITT32)
DEPARTMENT OF INFORMATION TECHNOLOGY

CODING :

main.py

```
import personalinfo as per
import academic as aca
while True:
    print("(1) Personal Details")
    print("(2) Academic Details")
    print("(3) Display all details")
    print("(4) Display report for single data \n")
    s=input("Enter any one Option : ")
    print("\n")
    if s=='1':
        per.choose()
    elif s=='2':
        aca.fin()
    elif s=='3':
        per.show_all()
        aca.display_all_records()
    elif s=='4':
        r=input("Enter Roll number to search : ")
        per.show_particular(r)
        aca.display_data1(r)
    else:
        print("Please Enter a valid Input.")
```

personalinfo.py

```
import mysql.connector as mc
from prettytable import PrettyTable

mydb = mc.connect(
    host = "localhost",
    user = "root",
    password = "*****",
    database = "stu"
)
cur = mydb.cursor()

table_name = "details"

all_table = PrettyTable()
all_table.field_names = ["Roll Number", "Name", "Gender", "Date Of Birth",
    "Mobile Number", "Email Id", "Department", "Year of Study"]

one_table = PrettyTable()
```

```
one_table.field_names = ["Roll Number", "Name", "Gender", "Date Of Birth",  
"Mobile Number", "Email Id", "Department", "Year of Study"]
```

```
global x
```

```
x=1
```

```
def option(s):
```

```
    match s:
```

```
        case '1':
```

```
            insert_row()
```

```
        case '2':
```

```
            print("(1) All Details ")
```

```
            print("(2) Particular Details ")
```

```
            opt = input('Enter your choice : ')
```

```
            if opt == '1':
```

```
                show_all()
```

```
            elif opt == '2':
```

```
                show_particular(input("Enter Roll Number to search : "))
```

```
            else:
```

```
                print("Invalid choice.")
```

```
        case '3':
```

```
            update_one(input("Enter Roll number to update : "))
```

```
        case '4':
```

```
            print("(1) Delete whole table ")
```

```
            print("(2) Delete particular Data ")
```

```
            ch = input('Enter your choice : ')
```

```
            if ch == '1':
```

```
                delete_table(table_name)
```

```
            elif ch == '2':
```

```
                delete_one(input("Enter Roll number to delete : "))
```

```
            else:
```

```
                print("Invalid choice.")
```

```
        case '5':
```

```
            print("Exited")
```

```
            return
```

```
def create_table():
```

```
    try:
```

```
        cre_det_tab = (f"CREATE TABLE IF NOT EXISTS {table_name} (Roll  
varchar(10) PRIMARY KEY, Name varchar(20), Gender varchar(10), DOB  
varchar(10), MobileNumber varchar(13), EmailID varchar(50), Department  
varchar(20), YearOfStudy varchar(10))")
```

```
        cur.execute(cre_det_tab)
```

```
        mydb.commit()
```

```
    except mc.Error as e:
```

```
        print("Error in creating a table as : ", e)
```

```
def insert_row():
```

```

ins = (f"INSERT INTO {table_name} (Roll, Name, Gender, DOB, MobileNumber,
EmailID, Department, YearOfStudy) VALUES (%s, %s, %s, %s, %s, %s, %s, %s)")
roll = int(input('Enter Roll Number: '))
name = input('Enter Name : ')
gender = input('Enter Gender : ')
dob = input('Enter Date of Birth : ')
mob = input('Enter Mobile Number : ')
email = input('Enter Email ID : ')
dept = input('Enter Department : ')
year = input('Enter Year of Study : ')
val = (roll, name, gender, dob, mob, email, dept, year)
all_table.add_row(val)
cur.execute(ins, val)
mydb.commit()
print("Successfully inserted.")

def add_to_all():
    try:
        sel = f"SELECT * FROM {table_name}"
        cur.execute(sel)
        rows = cur.fetchall()
        if len(rows) > 0:
            print("\nPersonal Details : \n")
            for row in rows:
                all_table.add_row([row[0], row[1], row[2], row[3], row[4],
row[5], row[6], row[7]])
        except mc.Error as e:
            print("Error in add all: ",e)

def show_all():
    try:
        sel = f"SELECT * FROM {table_name}"
        cur.execute(sel)
        rows = cur.fetchall()
        global x
        if len(rows) > 0:
            print("\nPersonal Details : \n")
            if x==1:
                for row in rows:
                    all_table.add_row([row[0], row[1], row[2], row[3], row[4],
row[5], row[6], row[7]])
                    print(all_table)
            else:
                print("No data found.")
        except:
            print("Table not found.")
        finally:
            x+=1

```

```

def show_particular(r):
    try:
        sel = f"SELECT * FROM {table_name} WHERE Roll=%s"
        cur.execute(sel, (r,))
        res = cur.fetchone()
        if res!=None:
            one_table.clear_rows()
            one_table.add_row([res[0], res[1], res[2], res[3], res[4], res[5],
res[6], res[7]])
            print(one_table)
        else:
            print("Data not Found.\n")
    except:
        print("Table not found.")

def update_one(roll):
    nme = input('\nEnter New Name : ')
    gndr = input('Enter New Gender : ')
    dOB = input('Enter new DOB : ')
    mblNum = input('Enter New Mobile Number : ')
    emlId = input('Enter New Email Id : ')
    dept = input('Enter New Department : ')
    year = input('Enter New Year of Study : ')
    upd = f"UPDATE {table_name} SET Name=%s, Gender=%s, DOB=%s,
MobileNumber=%s, EmailID=%s, Department=%s, YearOfStudy=%s WHERE Roll=%s"
    val = (nme, gndr, dOB, mblNum, emlId, dept, year, roll)
    cur.execute(upd, val)
    mydb.commit()
    print("Successfully Updated.\n")

def delete_table(tab_name):
    a = f"DROP TABLE IF EXISTS {tab_name}"
    cur.execute(a)
    mydb.commit()
    print("Table has been deleted.\n")

def delete_one(roll):
    sel = f"SELECT * FROM {table_name} WHERE Roll={roll}"
    cur.execute(sel)
    rec = cur.fetchone()
    if rec:
        a = f"DELETE FROM {table_name} WHERE Roll=%s"
        cur.execute(a, (roll,))
        mydb.commit()
        print("Deleted Successfully.\n")
    else:
        print("No data found in the Record.\n")

```

```

try:

    def choose():
        while True:
            create_table()
            print("(1) Insert New Data")
            print("(2) Display")
            print("(3) Update")
            print("(4) Delete")
            print("(5) Exit")
            op = (input("Enter your option: "))
            option(op)
except mc.Error as e:
    print("error in main last : ",e)

```

academic.py

```

import mysql.connector
from prettytable import PrettyTable
from tabulate import tabulate

try:
    mydb = mysql.connector.connect(
        host="localhost",
        user="root",
        password="*****",
        database="stu"
    )
    cursor = mydb.cursor()
except mysql.connector.Error as err:
    print(f"Error in connection: {err}")
def create_table():
    cursor.execute("""
        create table if not exists marks (
            Roll_Number INT PRIMARY KEY,
            Name VARCHAR(255),Subject_1 VARCHAR(50),
            Subject_2 VARCHAR(50),Subject_3 VARCHAR(50),
            Subject_4 VARCHAR(50),Subject_5 VARCHAR(50),
            Subject_6 VARCHAR(50),Total_Credits INT,
            GPA FLOAT,CGPA FLOAT,Outcome VARCHAR(10))
        """)

def calculate_gpa(subjects,total_cre):
    total_credits = 0
    mrks = 0

```

```

for credit_grade in subjects:
    credit, grade = credit_grade.split(',')
    try:
        total_credits += int(credit)
        mrks += int(credit) * get_grade_value(grade)
    except ValueError:
        print(f"Invalid grade value: {grade}.")
if total_credits == 0:
    return 0
elif total_credits != total_cre:
    return -1
gpa = mrks / total_credits
return round(gpa, 2)

def get_grade_value(grade):
    grade_values = {'O': 10, 'A+': 9, 'A': 8, 'B+': 7, 'B': 6, 'C': 5, 'U': 0}
    return grade_values.get(grade.upper(), 0)

def calculate_cgpa(roll_number, current_gpa):
    try:
        cursor.execute("SELECT CGPA FROM marks WHERE Roll_Number=%s",
(roll_number,))
        previous_cgpa = cursor.fetchone()
        if previous_cgpa:
            new_cgpa = (current_gpa + previous_cgpa[0]) / 2
        else:
            new_cgpa = current_gpa
        return round(new_cgpa, 2)
    except mysql.connector.Error as err:
        print(f"Error in cgpa calc: {err}")
        return None

def calculate_pf(subjects):
    pass_gra = {'O': 100, 'A+': 90, 'A': 80, 'B+': 70, 'B': 60, 'C': 50, 'U':
0}
    if any(grade.split(',')[1].upper() == 'U' for grade in subjects):
        return "Arrear"
    else:
        valid_subjects = [grade for grade in subjects if
grade.split(',')[1].upper() != 'U']
        mrks = sum(pass_gra[grade.split(',')[1].upper()] *
int(grade.split(',')[0]) for grade in valid_subjects)
        total_credits = sum(int(grade.split(',')[0]) for grade in
valid_subjects)
        average_score = mrks / total_credits
        return "Pass" if average_score >= 50 else "Arrear"

def insert_data():

```

```

try:
    roll_number = int(input("Enter Roll Number: "))
    name = input("Enter Name: ")
    subjects = []
    total_credits = int(input("Enter Total Number of Credits: "))
    for i in range(1, 7):
        subject_input = input(f"Enter marks for Subject {i} (format:
credit,grade): ")
        subjects.append(subject_input)
    gpa = calculate_gpa(subjects,total_credits)
    cgpa = calculate_cgpa( roll_number, gpa)
    pf = calculate_pf(subjects)
    cursor.execute("""
        INSERT INTO marks (
            Roll_Number, Name, Subject_1, Subject_2, Subject_3,
            Subject_4, Subject_5, Subject_6, Total_Credits, GPA, CGPA,
Outcome
            ) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s, %s)
        """, (roll_number, name,) + tuple(subjects) + (total_credits, gpa,
cgpa, pf))
    print("Data inserted successfully!")
except mysql.connector.Error as err:
    print(f"Error in insert: {err}")

def update_data():
    try:
        roll_number = int(input("Enter Roll Number: "))
        subjects = []
        cursor.execute("SELECT * FROM marks WHERE Roll_Number=%s",
(roll_number, ))
        existing_record = cursor.fetchone()
        if existing_record:
            total_credits = int(input("Enter Total Number of Credits: "))
            for i in range(1, 7):
                subject_input = input(f"Enter updated marks for Subject {i}
(format: credit,grade): ")
                subjects.append(subject_input)
            gpa = calculate_gpa(subjects,total_credits)
            if gpa!=-1:
                cgpa = calculate_cgpa( roll_number, gpa)
                pf = calculate_pf(subjects)
                cursor.execute("""
                    UPDATE marks
                    SET Subject_1=%s, Subject_2=%s, Subject_3=%s,
                        Subject_4=%s, Subject_5=%s, Subject_6=%s,
                        Total_Credits=%s, GPA=%s, CGPA=%s, Outcome=%s
                    WHERE Roll_Number=%s

```



```

        """ , tuple(subjects) + (total_credits, gpa, cgpa, pf,
roll_number))
        print("Data updated successfully!")
    else:
        print("Number of credits not matching.")
    else:
        print("Name or Roll Number not matching. No data updated.")
except mysql.connector.Error as err:
    print(f"Error in update: {err}")

def display_data( roll_number):
    try:
        cursor.execute("""
            SELECT * FROM marks
            WHERE Roll_Number=%s
        """, (roll_number,))
        data = cursor.fetchone()
        if data:
            table_data = [
                ["Roll Number", data[0]],
                ["Name", data[1]],
                ["Total Credits", data[8]],
                ["Subject 1", data[2]],
                ["Subject 2", data[3]],
                ["Subject 3", data[4]],
                ["Subject 4", data[5]],
                ["Subject 5", data[6]],
                ["Subject 6", data[7]],
                ["Current Semester GPA", data[9]],
                ["CGPA up to Current Semester", data[10]],
                ["Pass/Fail", data[11]],
            ]
            table = tabulate(table_data, tablefmt="grid")
            print(table)
        else:
            print("No data found for the given roll number and name.")
    except mysql.connector.Error as err:
        print(f"Error in display: {err}")

def display_data1( roll_number):
    try:
        cursor.execute("""
            SELECT * FROM marks
            WHERE Roll_Number=%s
        """, (roll_number,))
        data = cursor.fetchone()
        if data:
            table_data = [

```

```

        ["Total Credits", data[8]],
        ["Subject 1", data[2]],
        ["Subject 2", data[3]],
        ["Subject 3", data[4]],
        ["Subject 4", data[5]],
        ["Subject 5", data[6]],
        ["Subject 6", data[7]],
        ["Current Semester GPA", data[9]],
        ["CGPA up to Current Semester", data[10]],
        ["Pass/Fail", data[11]],
    ]
    table = tabulate(table_data, tablefmt="grid")
    print(table)
else:
    print("No data found for the given roll number and name.")
except mysql.connector.Error as err:
    print(f"Error in display: {err}")

def display_all_records():
    try:
        cursor.execute("SELECT * FROM marks")
        data = cursor.fetchall()
        if data:
            print("Academic Details : ")
            table = PrettyTable()
            table.field_names = ["Roll Number", "Name", "Subject 1", "Subject
2", "Subject 3", "Subject 4", "Subject 5", "Subject 6", "Total Credits",
"GPA", "CGPA", "Outcome"]
            for row in data:
                table.add_row(row)
            print(table)
        else:
            print("No records found.")
    except mysql.connector.Error as err:
        print(f"Error in display_all_records: {err}")

def delete_data():
    try:
        roll_number = int(input("Enter Roll Number to delete: "))
        cursor.execute("SELECT * FROM marks WHERE Roll_Number=%s",
(roll_number,))
        existing_record = cursor.fetchone()
        if existing_record:
            cursor.execute("DELETE FROM marks WHERE Roll_Number=%s",
(roll_number,))
            print(f"Record for Roll Number {roll_number} deleted
successfully!")
        else:

```

```

        print(f"No record found for Roll Number {roll_number}.")
    except mysql.connector.Error as err:
        print(f"Error in delete: {err}")

def choose():
    print("\n\n(1) Insert New Data")
    print("(2) Update Existing Data")
    print("(3) Display Particular Record")
    print("(4) Display all Records")
    print("(5) Delete Record by Roll Number")
    print("(6) Exit")

def fin():
    try:
        create_table()
        while True:
            choose()
            option = input("\nEnter any one option: ")
            match option:
                case '1':
                    insert_data()
                case '2':
                    update_data()
                case '3':
                    roll_number = int(input("Enter Roll Number: "))
                    display_data(roll_number)
                case '4':
                    display_all_records()
                case '5':
                    delete_data()
                case '6':
                    print("Exited")
                    break
                case _:
                    print("Invalid option. Please choose a valid option.")
            mydb.commit()
    except mysql.connector.Error as err:
        print(f"Error in main: {err}")

```

OUTPUT :

```
B:\project\student_dbms\main files>python main.py
```

- (1) Personal Details
- (2) Academic Details
- (3) Display all details

Enter any one Option : 1

- (1) Insert New Data
- (2) Display
- (3) Update
- (4) Delete
- (5) Exit

Enter your option: 2

- (1) All Details
- (2) Particular Details

Enter your choice : 1

Personal Details :

Roll Number	Name	Gender	Date Of Birth	Mobile Number	Email Id	Department	Year of Study
1	Vignesh	Male	12-11-2004	9561526165	vigneshd44@gmail.com	IT	3
2	Elakiya	Female	08-07-2006	9867317261	elakiyae16@gmail.com	CSE	1
3	Aravind	Male	15-06-2004	9641282574	aravindf13@gmail.com	FT	3
4	Meera	Female	03-10-2004	9639077838	meerag78@gmail.com	EEE	3
5	Giridharan	Male	05-07-2005	9361609946	giridharanh44@gmail.com	IT	2
6	Vishal	Male	17-01-2005	9102898459	vishalk42@gmail.com	EIE	2
7	Priya	Female	09-05-2005	8655594187	priyal29@gmail.com	CSE	2

- (1) Insert New Data
- (2) Display
- (3) Update
- (4) Delete
- (5) Exit

Enter your option: |

Enter your option: 2

- (1) All Details
- (2) Particular Details

Enter your choice : 2

Enter Roll Number to search : 5

Roll Number	Name	Gender	Date Of Birth	Mobile Number	Email Id	Department	Year of Study
5	Giridharan	Male	05-07-2005	9361609946	giridharanh44@gmail.com	IT	2

- (1) Insert New Data
- (2) Display
- (3) Update
- (4) Delete
- (5) Exit

Enter your option: 1

Enter Roll Number: 44

Enter Name : Nithya

Enter Gender : Female

Enter Date of Birth : 26-04-2005

Enter Mobile Number : 9344225143

Enter Email ID : nithya2k@gmail.com

Enter Department : ECE

Enter Year of Study : 2

Successfully inserted.

- (1) Insert New Data
- (2) Display
- (3) Update
- (4) Delete
- (5) Exit

Enter your option: 2

- (1) All Details
- (2) Particular Details

Enter your choice : 1

Enter New Name : Giridharan S
Enter New Gender : Male
Enter new DOB : 05-07-2004
Enter New Mobile Number : 9524625760
Enter New Email Id : giridharans1729@gmail.com
Enter New Department : IT
Enter New Year of Study : 3
Successfully Updated.

(1) Insert New Data
(2) Display
(3) Update
(4) Delete
(5) Exit
Enter your option: 2
(1) All Details
(2) Particular Details
Enter your choice : 1

Personal Details :

Roll Number	Name	Gender	Date Of Birth	Mobile Number	Email Id	Department	Year of Study
1	Vignesh	Male	12-11-2004	9561526165	vigneshd44@gmail.com	IT	3
2	Elakiya	Female	08-07-2006	9867317261	elakiyae16@gmail.com	CSE	1
3	Aravind	Male	15-06-2004	9641202574	aravindf13@gmail.com	FT	3
4	Meera	Female	03-10-2004	9639877838	meerag78@gmail.com	EEE	3
44	Nithya	Female	26-04-2005	9344225143	nithya2k@gmail.com	ECE	2
5	Giridharan S	Male	05-07-2004	9524625760	giridharans1729@gmail.com	IT	3
6	Vishal	Male	17-01-2005	9102898459	vishalk42@gmail.com	EIE	2
7	Priya	Female	09-05-2005	8655594107	priyal29@gmail.com	CSE	2

(1) Insert New Data
(2) Display
(3) Update
(4) Delete
(5) Exit

Enter your option: 4
(1) Delete whole table
(2) Delete particular Data
Enter your choice : 2
Enter Roll number to delete : 4
Deleted Successfully.

(1) Insert New Data
(2) Display
(3) Update
(4) Delete
(5) Exit
Enter your option: 2
(1) All Details
(2) Particular Details
Enter your choice : 1

Personal Details :

Roll Number	Name	Gender	Date Of Birth	Mobile Number	Email Id	Department	Year of Study
1	Vignesh	Male	12-11-2004	9561526165	vigneshd44@gmail.com	IT	3
2	Elakiya	Female	08-07-2006	9867317261	elakiyae16@gmail.com	CSE	1
3	Aravind	Male	15-06-2004	9641202574	aravindf13@gmail.com	FT	3
4	Meera	Female	03-10-2004	9639877838	meerag78@gmail.com	EEE	3
44	Nithya	Female	26-04-2005	9344225143	nithya2k@gmail.com	ECE	2
5	Giridharan S	Male	05-07-2004	9524625760	giridharans1729@gmail.com	IT	3
6	Vishal	Male	17-01-2005	9102898459	vishalk42@gmail.com	EIE	2
7	Priya	Female	09-05-2005	8655594107	priyal29@gmail.com	CSE	2

(1) Insert New Data
(2) Display
(3) Update
(4) Delete
(5) Exit

Enter your option: 5
Exited

(1) Personal Details
(2) Academic Details
(3) Display all details

Enter any one Option : 2

(1) Insert New Data
(2) Update Existing Data
(3) Display Particular Record
(4) Display all Records
(5) Delete Record by Roll Number
(6) Exit

Enter any one option: 4

Academic Details :

Roll Number	Name	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	Total Credits	GPA	CGPA	Outcome
1	Vignesh	4, b+	4, b+	4, b+	4, b+	4, b+	4, b+	24	7.0	6.37	Pass
2	Elakiya	1, a	1, a	1, a	1, a	1, a	1, a	6	8.0	8.5	Pass
3	Aravind	5, b	5, b	4, b	5, u	4, b	5, b	28	6.0	7.17	Arrear
4	Meera	4, b+	4, b+	4, b+	4, b+	4, b+	4, b+	24	7.0	6.37	Pass
5	Giridharan	3, b+	4, a	3, a	4, a	4, a	3, a+	21	7.96	8.08	Pass
6	Vishal	4, b+	4, b+	4, b+	4, b+	4, b+	4, b+	24	7.0	6.37	Pass
7	Priya	1, a	1, a	1, a	1, a	1, a	1, a	6	8.0	8.5	Pass

(1) Insert New Data
(2) Update Existing Data
(3) Display Particular Record
(4) Display all Records
(5) Delete Record by Roll Number
(6) Exit

Enter any one option: 1
Enter Roll Number: 44
Enter Name: Nithya
Enter Total Number of Credits: 21
Enter marks for Subject 1 (format: credit,grade): 3,b
Enter marks for Subject 2 (format: credit,grade): 4,b+
Enter marks for Subject 3 (format: credit,grade): 3,b+
Enter marks for Subject 4 (format: credit,grade): 4,b+
Enter marks for Subject 5 (format: credit,grade): 4,b+
Enter marks for Subject 6 (format: credit,grade): 3,a
Data inserted successfully!

- (1) Insert New Data
- (2) Update Existing Data
- (3) Display Particular Record
- (4) Display all Records
- (5) Delete Record by Roll Number
- (6) Exit

Enter any one option: 3
Enter Roll Number: 44

Roll Number	44
Name	Nithya
Total Credits	21
Subject 1	3,b
Subject 2	4,b+
Subject 3	3,b+
Subject 4	4,b+
Subject 5	4,b+
Subject 6	3,a
Current Semester GPA	7.0
CGPA up to Current Semester	7.0
Pass/Fail	Pass

- (1) Insert New Data
- (2) Update Existing Data
- (3) Display Particular Record
- (4) Display all Records
- (5) Delete Record by Roll Number
- (6) Exit

Enter any one option: 2
Enter Roll Number: 5
Enter Total Number of Credits: 21
Enter updated marks for Subject 1 (format: credit,grade): 4,o
Enter updated marks for Subject 2 (format: credit,grade): 4,o
Enter updated marks for Subject 3 (format: credit,grade): 4,o
Enter updated marks for Subject 4 (format: credit,grade): 3,o
Enter updated marks for Subject 5 (format: credit,grade): 3,o
Enter updated marks for Subject 6 (format: credit,grade): 3,a+
Data updated successfully!

- (1) Insert New Data
- (2) Update Existing Data
- (3) Display Particular Record
- (4) Display all Records
- (5) Delete Record by Roll Number
- (6) Exit

Enter any one option: 4

Academic Details :

Roll Number	Name	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	Total Credits	GPA	CGPA	Outcome
1	Vignesh	4,b+	4,b+	4,b+	4,b+	4,b+	4,b+	24	7.0	6.37	Pass
2	Elakiya	1,a	1,a	1,a	1,a	1,a	1,a	6	8.0	8.5	Pass
3	Apavind	5,b	5,b	4,b	5,u	4,b	5,b	28	6.0	7.17	Arrear
4	Neera	4,b+	4,b+	4,b+	4,b+	4,b+	4,b+	24	7.0	6.37	Pass
5	Giridharan	4,o	4,o	4,o	3,o	3,o	3,a+	21	9.86	8.97	Pass
6	Vishal	4,b+	4,b+	4,b+	4,b+	4,b+	4,b+	24	7.0	6.37	Pass
7	Priya	1,a	1,a	1,a	1,a	1,a	1,a	6	8.0	8.5	Pass
44	Nithya	3,b	4,b+	3,b+	4,b+	4,b+	3,a	21	7.0	7.0	Pass

- (1) Insert New Data
- (2) Update Existing Data
- (3) Display Particular Record
- (4) Display all Records
- (5) Delete Record by Roll Number
- (6) Exit

Enter any one option: 5
Enter Roll Number to delete: 7
Record for Roll Number 7 deleted successfully!

(1) Insert New Data
(2) Update Existing Data
(3) Display Particular Record
(4) Display all Records
(5) Delete Record by Roll Number
(6) Exit

Enter any one option: 3

Enter Roll Number: 7

No data found for the given roll number and name.

(1) Insert New Data
(2) Update Existing Data
(3) Display Particular Record
(4) Display all Records
(5) Delete Record by Roll Number
(6) Exit

Enter any one option: 6

Exited

(1) Personal Details
(2) Academic Details
(3) Display all details

Enter any one Option : 3

Personal Details :

Roll Number	Name	Gender	Date Of Birth	Mobile Number	Email Id	Department	Year of Study
1	Vignesh	Male	12-11-2004	9561526165	vigneshd44@gmail.com	IT	3
2	Elakiya	Female	08-07-2006	9867317261	elakiyae16@gmail.com	CSE	1
3	Aravind	Male	15-06-2004	9641202574	aravindf13@gmail.com	FT	3
44	Nithya	Female	26-04-2005	9344225143	nithya2k@gmail.com	ECE	2
5	Giridharan S	Male	05-07-2004	9524625760	giridharans1729@gmail.com	IT	3
6	Vishal	Male	17-01-2005	9182898459	vishalk42@gmail.com	EIE	2
7	Priya	Female	09-05-2005	8655594107	priyal29@gmail.com	CSE	2

Academic Details :

Roll Number	Name	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	Total Credits	GPA	CGPA	Outcome
1	Vignesh	4,b+	4,b+	4,b+	4,b+	4,b+	4,b+	24	7.0	6.37	Pass
2	Elakiya	1,a	1,a	1,a	1,a	1,a	1,a	6	8.0	8.5	Pass
3	Aravind	5,b	5,b	4,b	5,u	4,b	5,b	28	6.0	7.17	Arrear
4	Meera	4,b+	4,b+	4,b+	4,b+	4,b+	4,b+	24	7.0	6.37	Pass
5	Giridharan	4,o	4,o	4,o	3,o	3,o	3,a+	21	9.86	8.97	Pass
6	Vishal	4,b+	4,b+	4,b+	4,b+	4,b+	4,b+	24	7.0	6.37	Pass
44	Nithya	3,b	4,b+	3,b+	4,b+	4,b+	3,a	21	7.0	7.0	Pass

(1) Personal Details
(2) Academic Details
(3) Display all details

Exiting...

Exited