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केन्द्रीय विद्यालय संगठन

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**A Project Report On**  
**STUDENT MANAGEMENT SYSTEM USING PYTHON**  
**FOR AISSCE 2021**

**As a part of the Computer Science Course (083)**

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## **CERTIFICATE**

This is to certify that the Project entitled, “Student Report Card Management system” is a bona-fide work done by *Shivam Agrawal, Roll no. 22627831* of class XII B of academic session 2020-21 in partial fulfillment of CBSE’s AISSC Examination 2021 and has been carried out under my direct supervision and guidance. This Report or a similar report on this topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

.....  
**signature of Student**

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.....  
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**PGT (Computer Science)**

*Signature Of Examiner*

*Principal*

# **ACKNOWLEDGMENT**

I am extremely grateful to **Mr. Narendra Kumar**, Teacher of Department of Computer Science for his able guidance and useful suggestions, which helped me in completing the project work, in time.

I would also like to thank **Dr. Amina Khatoon**, Our Principal Mam and all other teaching and non-teaching staff of Computer Science department who helped me directly or indirectly in the completion of this project.

Finally, yet importantly, I would like to express my heartfelt thanks to my beloved parents for their blessings, my friends/classmates for their help and wishes for the successful completion of this project.

***Shivam Agrawal***

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# INTRODUCTION

The project titled “Student Management System Using Python” is a program for monitoring and controlling the records of a Student. This project is designed & coded in Python 3 and database management is handled by MYSQL.

This program mainly focuses on basic operations like creating a profile for new student, searching details and marks of a student and updating records/details of a student, The Student Management System is a Python program written on 64 bits, windows 10, designed to help school management to maintain and organize a student’s detail with ease.

This programme is easy to use for both beginners and advanced users. It features a familiar and simple, user interface, combined with strong searching, insertion and reporting capabilities. The report generation facility helps to get a good idea of which.

# **OBJECTIVES**

- i. To reduce time for the Institution**
- ii. To increase efficiency and accuracy of the system**
- iii. To reduce pressure on the management and relieving man power from repetitive and dull job**
- iv. To make the retrieval of information faster**
- v. To make the system more feasible**
- vi. To reduce large amount of paper work**
- vii. To make the system more reliable to avoid any ambiguity.**
- viii. To make the system more flexible.**



## **About PYTHON**

**Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, makes it an ideal language for scripting and rapid application development in many areas on most platforms.**

### **Features of Python:**

- i. Simple**
- ii. Easy to Learn**
- iii. Free and Open Source**
- iv. Object Oriented**
- v. Extensive Libraries**
- vi. Embeddable**



## About SQL

- **MySQL** is a freely available open source Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). SQL is the most popular language for adding, accessing and managing content in a database. It is most noted for its quick processing, proven reliability, ease and flexibility of **use**.
- It offers advanced features and reliability far beyond a typical freeware project. Successful companies such as Verizon, Netflix, and Twitter rely on **MySQL** databases to power their businesses. In addition to being free, another very appealing aspect of **MySQL** is its open source nature.
- **MySQL** is a relational database management system (RDBMS) based on the SQL (Structured Query Language) queries. It is one of the most popular languages for accessing and managing the records in the table. **MySQL** is open-source and free software under the GNU license.



# **MODULES USED**

The following modules were used in making of this program:

- **mysql.connector**

**mysql.connector** – It is a module of python which helps in the connection of Python with My SQL. It is not an inbuilt module.

# SQL Tables

```
mysql> show tables;
+-----+
| Tables_in_result |
+-----+
| details           |
| marks             |
| result            |
+-----+
3 rows in set (0.00 sec)
```

MySQL 5.5 Command Line Client

```
mysql> desc details;
+-----+
| details |
| marks  |
| result |
+-----+
3 rows in set (0.00 sec)

mysql> desc details;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| mother_name | varchar(20) | YES  |     | NULL    |       |
| father_name | varchar(20) | YES  |     | NULL    |       |
| d_o_b       | varchar(20) | YES  |     | NULL    |       |
| roll        | int(11)     | NO   | PRI | NULL    |       |
| name        | char(20)    | YES  |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)

mysql> desc marks;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| english    | int(11)   | YES  |     | NULL    |       |
| hindi      | int(11)   | YES  |     | NULL    |       |
| maths      | int(11)   | YES  |     | NULL    |       |
| science    | int(11)   | YES  |     | NULL    |       |
| sst        | int(11)   | YES  |     | NULL    |       |
| computer   | int(11)   | YES  |     | NULL    |       |
| roll       | int(11)   | YES  | MUL | NULL    |       |
+-----+
7 rows in set (0.00 sec)

mysql> desc result;;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| percentage | char(20)   | YES  |     | NULL    |       |
| total_marks | int(11)    | YES  |     | NULL    |       |
| roll       | int(11)    | YES  | MUL | NULL    |       |
| status     | char(20)   | YES  |     | NULL    |       |
+-----+
4 rows in set (0.00 sec)
```

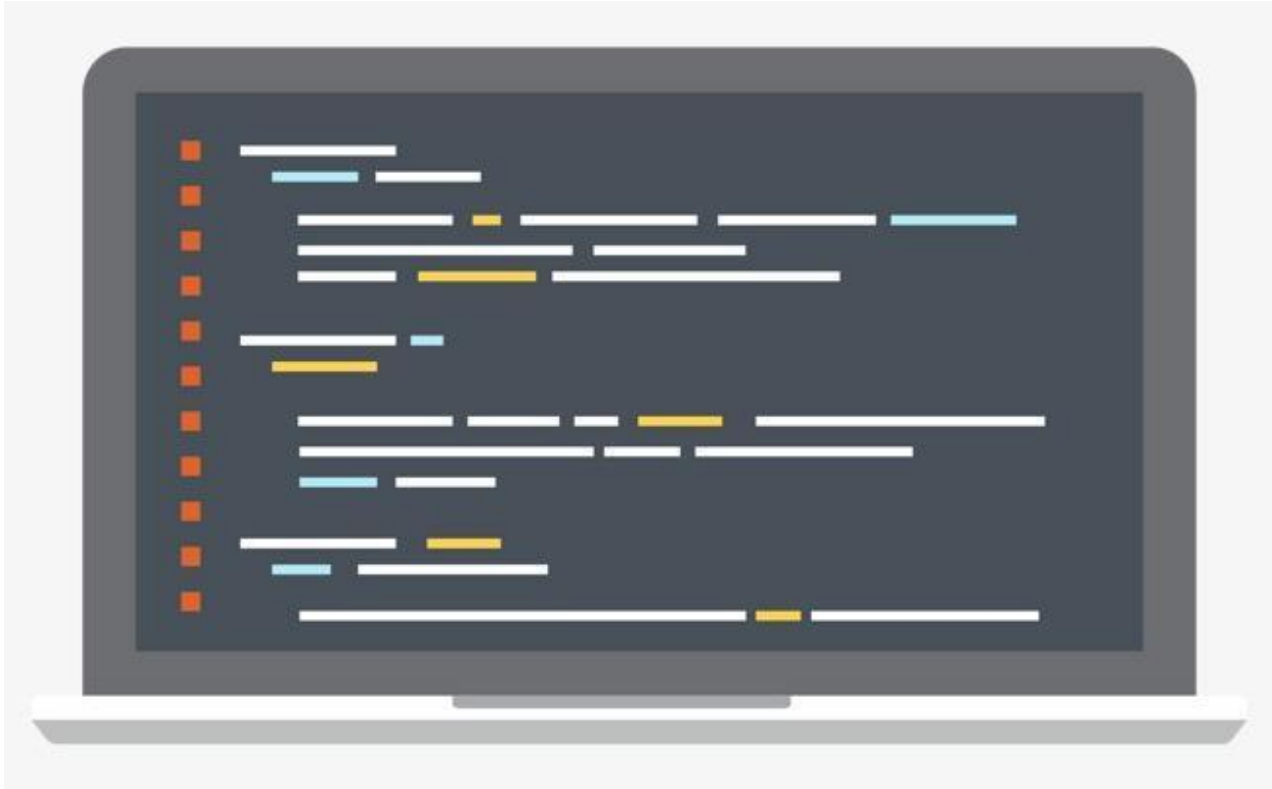
# **SYSTEM REQUIREMENTS**

## **❖ HARDWARE REQUIRED:**

- **Computer**
  - a) **Ram-at least 1gb**
  - b) **Processor-Intel Atom/I3 or above**
  - c) **HDD-20Gb+**
- **Printer**
- **Compact Disk**

## **❖ SOFTWARE REQUIRED:**

- **Operating System: Windows 7 or later**
- **Python 3 or above**
- **Ms Word**
- **MySQL**



# Source Code

```

print()
print()
print("""
*****
\t  STUDENT REPORT CARD MANAGEMENT SYSTEM

*****""")
print()
#===== sql connection
=====
import mysql.connector as mc
connect=""
try:
    db=mc.connect(host="localhost",user
="root",password="jaihind",database="result")
    cur=db.cursor()
    connect='ok'
except:
    print('====connection to sql failed====')
    print('...Program not connected to sql please check program and
database.....')
if connect=='ok':
    cur.execute('show tables')
    rec=cur.fetchall()
    table=""
    if ('details',) in rec:
        if ('marks',) in rec:
            if ('result',) in rec:
                table='ok'
    else:
        print('Tables not found in my sql please check correctly')
#===== functions
=====
def insert_details():
    roll=int(input('Enter roll no of student;'))
    sql='select * from details where roll=%s'

```

```

data=(roll,)
cur.execute(sql,data)
record=cur.fetchall()
if len(record)!=0:
    print('Record already exist for this roll no;')
else:
    while True:
        name=input('Enter name of student;')
        mot=input('Enter mother\'s name;')
        ft=input('Enter father\'s name;')
        dob=input('Enter date of birth;')
        sql1='insert into details values(%s,%s,%s,%s,%s)'
        data1=(mot,ft,dob,roll,name)
        cur.execute(sql1,data1)
        db.commit()
        ch=input('Do you want to enter more record say(y/n)')
        if ch=='y' or ch=='Y':
            continue
        elif ch=='n' or ch=='N':
            print('Record sucessfully inserted...')
            break
        else:
            print('Enter right choice.....')

```

```

def display_details():
    roll=int(input('Enter roll no of student for display details;'))
    sql='select * from details where roll=%s'
    data=(roll,)
    cur.execute(sql,data)
    record=cur.fetchall()
    if len(record)==0:
        print('NO record found for this roll no;')
    else:
        print('[Mother\'s name,Father\'s name,DOB,Roll no,Name]')
        print(record)
def modify_details():

```

```

roll=int(input('Enter roll no of student for modify/delete details;'))
sql='select * from details where roll=%s'
data=(roll,)
cur.execute(sql,data)
record=cur.fetchall()
if len(record)==0:
    print('NO record found for this roll no;')
else:
    cho=input('Do you want to delete or modify record;')
    if cho=='delete' or cho=='Delete':
        sql='delete from details where roll=%s'
        data=(roll,)
        cur.execute(sql,data)
        db.commit()
        print('Record sucessfully deleted.....')
    elif cho=='modify' or cho=='Modify':
        chi=input('what you want to modify-\n1.Name\n2.Mother\'s
name\n3.Father\'s name\n4.D.O.B\n')
        if chi=='1':
            name=input('Enter new name of student ;')
            sql='update details set name=%s where roll=%s'
            data=(name,roll)
            cur.execute(sql,data)
            db.commit()
            print('Record sucessfully modify.....')

        elif chi=='2':
            mot=input('Enter new mother\'s name;')
            sql='update details set mother_name=%s where roll=%s'
            data=(mot,roll)
            cur.execute(sql,data)
            db.commit()
            print('Record sucessfully modify.....')
        elif chi=='3':
            ft=input('Enter new father\'s name;')
            sql='update details set father_name=%s where roll=%s'

```

```
        data=(ft,roll)
        cur.execute(sql,data)
        db.commit()
        print('Record sucessfully modify.....')
    elif chi=='4':
        dob=input('Enter new date of birth;')
        sql='update details set d_o_b=%s where roll=%s'
        data=(dob,roll)
        cur.execute(sql,data)
        db.commit()
        print('Record sucessfully modify.....')
    else:
        print('Enter right choice.....')
else:
    print('Enter right choice.....')
```

```
def insert_marks():
    roll=int(input('Enter roll no of student for insert marks;'))
    sql='select * from details where roll=%s'
    data=(roll,)
    cur.execute(sql,data)
    record=cur.fetchall()
    if len(record)==0:
        print('NO record found for this roll no;')
    else:
        ms1=int(input('Enter marks of English;'))
        ms2=int(input('Enter marks of Hindi;'))
        ms3=int(input('Enter marks of Math;'))
        ms4=int(input('Enter marks of Science;'))
        ms5=int(input('Enter marks of Social Science;'))
        ms6=int(input('Enter marks of computer;'))
        sql1='insert into marks values(%s,%s,%s,%s,%s,%s,%s)'
        data1=(ms1,ms2,ms3,ms4,ms5,ms6,roll)
        cur.execute(sql1,data1)
        db.commit()
        print('Record sucessfully inserted....')
```



```

def display_marks():
    roll=int(input('Enter roll no of student for display marks;'))
    sql='select * from marks where roll=%s'
    data=(roll,)
    cur.execute(sql,data)

    record=cur.fetchall()
    if len(record)==0:
        print('NO record found for this roll no;')
    else:
        print('[English,Hindi,Math,Science,social,computer]')
        print(record)
def modify_marks():
    roll=int(input('Enter roll no of student for modify/delete marks;'))
    sql='select * from marks where roll=%s'
    data=(roll,)
    cur.execute(sql,data)
    record=cur.fetchall()
    if len(record)==0:
        print('NO record found for this roll no;')
    else:
        cho=input('Do you want to delete or modify marks;')
        if cho=='delete' or cho=='Delete':
            sql='delete from marks where roll=%s'
            data=(roll,)
            cur.execute(sql,data)
            db.commit()
            print('Record sucessfully delete.....')
        elif cho=='modify' or cho=='Modify':
            chi=input('what you want to modify marks of -
\n1.English\n2.Hindi\n3.Maths4.Science\n5.Social\n6.Computer\nEnter-
')
            if chi=='1':
                ms1=int(input('Enter marks of English;'))
                sql='update marks set english=%s where roll=%s'

```

```
data=(ms1,roll)
cur.execute(sql,data)
db.commit()
print('Record sucessfully modify.....')

elif chi=='2':
    ms2=int(input('Enter marks of Hindi;'))
    sql='update marks set hindi=%s where roll=%s'
    data=(ms2,roll)
    cur.execute(sql,data)
    db.commit()
    print('Record sucessfully modify.....')
elif chi=='3':
    ms3=int(input('Enter marks of Math;'))
    sql='update marks set maths=%s where roll=%s'
    data=(ms3,roll)
    cur.execute(sql,data)
    db.commit()
    print('Record sucessfully modify.....')
elif chi=='4':
    ms4=int(input('Enter marks of Science;'))
    sql='update marks set science=%s where roll=%s'
    data=(ms4,roll)
    cur.execute(sql,data)
    db.commit()
    print('Record sucessfully modify.....')
elif chi=='5':
    ms5=int(input('Enter marks of Social;'))
    sql='update marks set sst=%s where roll=%s'
    data=(ms5,roll)
    cur.execute(sql,data)
    db.commit()
    print('Record sucessfully modify.....')
elif chi=='6':
    ms6=int(input('Enter marks of computer;'))
    sql='update marks set computer=%s where roll=%s'
```

```
        data=(ms6,roll)
        cur.execute(sql,data)
        db.commit()
        print('Record sucessfully modify.....')
    else:
        print('Enter right choice.....')
else:
    print('Enter right choice.....')
```

```
def result_creator():
    total=0
    count=0
    percentage=0

    roll=int(input('Enter roll no of student for result creation;'))
    sql='select * from marks where roll=%s'
    data=(roll,)
    cur.execute(sql,data)
    record=cur.fetchall()
    if len(record)==0:
        print('Record not found for this roll no;')
    else:
        sql='select * from result where roll=%s'
        data=(roll,)
        cur.execute(sql,data)
        record=cur.fetchall()
        if len(record)!=0:
            print('Result already created...')
        else:
            sql='select * from marks where roll=%s'
            data=(roll,)
            cur.execute(sql,data)
            record=cur.fetchall()
            for i in range(len(record[0])-1):
                total+=int(record[0][i])
                if record[0][i]<33:
```

```

        count+=1
    if count>=2:
        status='FAIL'
    else:
        status='PASS'
    percentage=str(total/5)
    sql='insert into result values(%s,%s,%s,%s)'
    data=(percentage,total,roll,status)
    cur.execute(sql,data)
    db.commit()
    print('Result sucessfully created...')

```

```

def display_result():
    cho=input('Want to see all result say(y/n);')
    if cho=='Y' or cho=='y':
        cur.execute('select * from details,marks,result where
details.roll=marks.roll=result.roll;')
        record=cur.fetchall()
        for rec in record:
            print('
            _____)

            print('|')
            print('| student name : ',\t',rec[4])
            print('| roll      : ',\t',rec[3])
            print('| date of birth: ',\t',rec[2])
            print('| mother\'s name : ',\t',rec[0])
            print('| father\'s name : ',\t',rec[1])
            print('|.....')
            print('| subject      marks')
            print('|.....')
            print('| science    : \t',rec[8])
            print('| hindi     : \t',rec[6])
            print('| social studies :\t',rec[9])
            print('| maths      : \t',rec[7])
            print('| computer   : ',\t',rec[10])
            print('| englis     : \t',rec[5])

```

```
print('| total      : \t',rec[13])
print('| percent    : \t',rec[12],'%')
print('| status      : \t',rec[15])
```

```
elif cho=='N' or cho=='n':
    roll=int(input('Enter roll no of student for display result;'))
    sql=' select * from details,marks,result where
details.roll=%s=marks.roll=result.roll;'
    data=(roll,)
    cur.execute(sql,data)
    rec=cur.fetchall()
    if len(rec)==0:
        print('NO record found for this roll no;')
    else:
        print('
_____')
```

```
print('|')
print('| student name : ',\t',rec[0][4])
print('| roll        : ',\t',rec[0][3])
print('| date of birth: ',\t',rec[0][2])
print('| mother\'s name : ',\t',rec[0][0])
print('| father\'s name : ',\t',rec[0][1])
print('| science      : \t',rec[0][8])
print('| hindi        : \t',rec[0][6])
print('| social studies :\t',rec[0][9])
print('| maths         : \t',rec[0][7])
print('| computer      : ',\t',rec[0][10])
print('| englis        : \t',rec[0][5])
print('| total         : \t',rec[0][13])
print('| percent       : \t',rec[0][12],'%')
print('| status        : \t',rec[0][15])
```

```
if connect=='ok' and table=='ok':
    while True:
        print('|.....|')
```

```

print('| *****MENU FOR OPERATION***** |')
print('|.....|')
print('| 1.To insert |')
print('|.....|')
print('| 2.To display |')
print('|.....|')
print('| 3.To modify/delete |')
print('|.....|')
print('| 4.To create result |')
print('|.....|')
print('| 5.To displsy result |')
print('|.....|')
print('| 6.EXIT |')
print('|.....|')
cho=int(input('Enter your choice(1,2,3,4,5,6);'))
if cho==1:
    while True:
        print('|.....|')
        print('| *****SUBMENU FOR OPERATION***** |')
        print('|.....|')
        print('| 1.To insert details of student |')
        print('|.....|')
        print('| 2.To insert marks of syudent |')
        print('|.....|')
        print('| 3.EXIT |')
        print('|.....|')
        cho=int(input('Enter your choice(1,2,3);'))
        if cho==1:
            insert_details()
        elif cho==2:
            insert_marks()
        elif cho==3:
            break
        else:
            print('Enter right choice...')

```

```

elif cho==2:
    while True:
        print('|.....|')
        print('| *****SUBMENU FOR OPERATION***** |')
        print('|.....|')
        print('| 1.To display details of student |')
        print('|.....|')
        print('| 2.To display marks of student |')
        print('|.....|')
        print('| 3.EXIT |')
        print('|.....|')
        cho=int(input('Enter your choice(1,2,3);'))
        if cho==1:
            display_details()
        elif cho==2:
            display_marks()
        elif cho==3:
            break
        else:
            print('Enter right choice...')
elif cho==3:
    while True:
        print('|.....|')
        print('| *****SUBMENU FOR OPERATION***** |')
        print('|.....|')
        print('|1.To modify/delete details of student|')
        print('|.....|')
        print('|2.To modify/delete marks of student |')
        print('|.....|')
        print('|3.EXIT |')
        print('|.....|')
        cho=int(input('Enter your choice(1,2,3);'))
        if cho==1:
            modify_details()
        elif cho==2:
            modify_marks()

```

```
        elif cho==3:
            break
        else:
            print('Enter right choice...')
elif cho==4:
    result_creator()
elif cho==5:
    display_result()
elif cho==6:
    break
else:
    print('Enter right choice...')
```



# OUTPUT

```
"IDLE Shell 3.9.1"
File Edit Shell Debug Options Window Help
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python39\shivam project\shivam result.py =====

*****
      STUDENT REPORT CARD MANAGEMENT SYSTEM
*****

|.....|
| *****MENU FOR OPERATION***** |
|.....|
| 1.To insert |
|.....|
| 2.To display |
|.....|
| 3.To modify/delete |
|.....|
| 4.To create result |
|.....|
| 5.To displsy result |
|.....|
| 6.EXIT |
|.....|
Enter your choice(1,2,3,4,5,6);
```

```
"IDLE Shell 3.9.1"
File Edit Shell Debug Options Window Help
Enter roll no of student;1
Record already exist for this roll no;
|.....|
| *****SUBMENU FOR OPERATION***** |
|.....|
| 1.To insert details of student |
|.....|
| 2.To insert marks of syudent |
|.....|
| 3.EXIT |
|.....|
Enter your choice(1,2,3);1
Enter roll no of student;2
Enter name of student;shivam
Enter mother's name;kiran
Enter father's name;rajesh
Enter date of birth;14-09-2003
Do you want to enter more record say(y/n)n
Record sucessfully inserted...
|.....|
| *****SUBMENU FOR OPERATION***** |
|.....|
| 1.To insert details of student |
|.....|
| 2.To insert marks of syudent |
|.....|
| 3.EXIT |
|.....|
Enter your choice(1,2,3);
```

```

| .....|
| 5.To displsy result|
| .....|
| 6.EXIT|
| .....|
Enter your choice(1,2,3,4,5,6);2
| .....|
| *****SUBMENU FOR OPERATION*****|
| .....|
| 1.To display details of student|
| .....|
| 2.To display marks of student|
| .....|
| 3.EXIT|
| .....|
Enter your choice(1,2,3);1
Enter roll no of student for display details;1
[Mother's name,Father's name,DOB,Roll no,Name]
(['abcd', 'efghi', '12/13/2252', 1, 'saurav kumar'])
| .....|
| *****SUBMENU FOR OPERATION*****|
| .....|
| 1.To display details of student|
| .....|
| 2.To display marks of student|
| .....|
| 3.EXIT|
| .....|
Enter your choice(1,2,3);

```

```

| .....|
Enter your choice(1,2,3);2
Enter roll no of student for display marks;1
[English,Hindi,Math,Science,social,computer]
[(10, 0, 33, 78, 99, 0, 1)]
| .....|
| *****SUBMENU FOR OPERATION*****|
| .....|
| 1.To display details of student|
| .....|
| 2.To display marks of student|
| .....|
| 3.EXIT|
| .....|
Enter your choice(1,2,3);3
| .....|
| *****MENU FOR OPERATION*****|
| .....|
| 1.To insert|
| .....|
| 2.To display|
| .....|
| 3.To modify/delete|
| .....|
| 4.To create result|
| .....|
| 5.To displsy result|
| .....|
| 6.EXIT|

```

```

1
Enter new name of student ;ram kumar
Record sucessfully modify.....
|.....|
| *****SUBMENU FOR OPERATION***** |
|.....|
|1.To modify/delete details of student|
|.....|
|2.To modify/delete marks of student |
|.....|
|3.EXIT                                |
|.....|
Enter your choice(1,2,3);2
Enter roll no of student for modify/delete marks;1
Do you want to delete or modify marks;modify
what you want to modify marks of -
1.English
2.Hindi
3.Maths4.Science
5.Social
6.Computer
Enter-1
Enter marks of English;99
Record sucessfully modify.....
|.....|
| *****SUBMENU FOR OPERATION***** |
|.....|
|1.To modify/delete details of student|
|.....|

```

```

3.Maths4.Science
5.Social
6.Computer
Enter-1
Enter marks of English;99
Record sucessfully modify.....
|.....|
| *****SUBMENU FOR OPERATION***** |
|.....|
|1.To modify/delete details of student|
|.....|
|2.To modify/delete marks of student |
|.....|
|3.EXIT                                |
|.....|
Enter your choice(1,2,3);2
Enter roll no of student for modify/delete marks;1
Do you want to delete or modify marks;delete
Record sucessfully delete.....
|.....|
| *****SUBMENU FOR OPERATION***** |
|.....|
|1.To modify/delete details of student|
|.....|
|2.To modify/delete marks of student |
|.....|
|3.EXIT                                |
|.....|
Enter your choice(1,2,3);

```

```
| student name : shashwat
| roll : 5
| date of birth: 09-09-2004
| mother's name : abc
| father's name : defc
| .....
| subject marks
| .....
| science : 23
| hindi : 44
| social studies : 32
| maths : 33
| computer : 99
| englis : 45
| total : 220
| percent : 44.0 %
| status : FAIL
| .....
| *****MENU FOR OPERATION*****
| .....
| 1.To insert
| .....
| 2.To display
| .....
| 3.To modify/delete
| .....
| 4.To create result
| .....
|
```

```
| .....
| 6.EXIT
| .....
Enter your choice(1,2,3,4,5,6);3
| .....
| *****SUBMENU FOR OPERATION*****
| .....
| 1.To modify/delete details of student
| .....
| 2.To modify/delete marks of student
| .....
| 3.EXIT
| .....
Enter your choice(1,2,3);1
Enter roll no of student for modify/delete details;1
Do you want to delete or modify record;modify
what you want to modify-
1.Name
2.Mother's name
3.Father's name
4.D.O.B
1
Enter new name of student ;ram kumar
Record sucessfully modify.....
| .....
| *****SUBMENU FOR OPERATION*****
| .....
| 1.To modify/delete details of student
| .....
|
```

# **LIMITATIONS AND UPGRADATIONS**

## ***\*Limitations:***

- Records of only one student can be modified at a time.
- Results of multiple students can't be displayed at once.
- Multiple Databases can't be used together.

## ***\*Upgradations:***

The following upgradations can be made in future:

- Attendance record maintenance and attendance calculator.
- FEE details maintenance.
- GUI Interface.
- Option to Print the result of a student.

# **BIBLIOGRAPHY**

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