School Management System

Project Submitted As Per The Requirement of CBSE (2020-2021) Practical of Computer Science.

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This is to certify that GAGAN CHAUHAN student of class 12th has successfully completed the research on the below mentioned project under the guidance of Mr. VIVEK DALAKOTI during the year of 2020-21 partial fulfillment of computer science practical examination conducted by CBSE.

TEACHER' SIGNATURE:

PRINCIPAL SIR SIGNATURE:

EXAMINER SIGNATURE:

Acknowledgement

In the accomplishment of this project successfully, many people have best owned upon me their blessings and the heart pledge support, this time I am utilizing to thank all the people who have been concerned with this project. Primarily I would like thank god for being able to complete this project with success. Then I would like to My Computer science teacher Mr. Vivek dalakoti whose valuable guidance has been the ones that helped me patch this project and make it full proof success, his suggestions and instruction has served as the major contribution towards the completion of this project.

Then I would like to thank my parents who have helped me with their valuable suggestions and guidance has been very helpful in various phases of the completion of the project.

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REQUIREMENT

Minimum System Requirements:

Processors: Intel i3 processor.

Disk space: 2 to 4 GB.

Operating systems: Windows 7 OR Above.

Python Versions: 3.7 or Higher.

Prerequisites before installing MySQL Connector Python

You need root or administrator privileges to perform the installation process. Python must be installed on your machine.

Note: – MySQL Connector Python requires python to be in the system's PATH. Installation fails if it doesn't find Python. On Windows, If Python doesn't exist in the system's PATH, please manually add the directory containing python.exe yourself.

INTRODUCTION

School management system project in python with mysql connectivity is a simple console application built without the use of graphics. This project school management system helps in managing the record of students and teachers according to their roll no and Acno. In this project we tried to enter all details of students like roll no, name, class etc. and tried to maintain all the possibility which may help the user to enter more record if he/she requires. Some of the features of the program are:

1. ADD STUDENT

2. REMOVE STUDENT

3. ADD TEACHER

4. REMOVE TEACHER

5. CLASS Attendence(ADD ABSENT STUDENTS)

6. TEACHER Attendence(ADD ABSENT TEACHERS)

7. SUBMIT FEES

8. PAY SALARY

9. dISPLAY CLASS

10. TEACHER LIST

Modules/Functions used in Project:

- **Import mysql.connector**:- Module used to connect Python with MySQL.
- **Fetchall()**: to fetch records from a result set
- **deaf()**: FUNCTION FOR CREATING DEAFULT STUDENTS TABLE.
- **ast()**: FUNCTION TO STORE STUDENT DETAILS
- **rst()**: FUNCTION TO REMOVE STUDENT
- **addt()**: FUNCTION TO ADD TEACHER
- **remt()**: FUNCTION TO REMOVE TEACHER
- **abclass()**: FUNCTION TO STORE ABSENT STUDENT NAME
- **abteacher()**: FUNCTION TO STORE ABSENT TEACHER NAME
- **submitf()**: FUNCTION TO STORE FEES OF STUDENT
- **pays()**: FUNCTION TO STORE SALARY DETAILS
- **dclass()**: FUNCTION TO DISPLAY STUDENTS
- **dteacher()**: FUNCTION TO DISPLAY TEACHER

SOURCE CODE

```
#****************************************************************

#              SCHOOL Management System

#********************************************************************

#********************************************************************

import mysql.connector as a

con=a.connect(host="localhost",user="root",passwd="1234",)

c=con.cursor()

# TO BE RUN ONLY ONCE

#************************************************************************

# 	Creating DATABASE/TABLES USED IN PROJECT

#********************************************************************

c.execute("create database school")

c.execute("use school")
```

```python
c.execute("create table student(name char(30),class int,roll_no int,address char(50),phone int)")

c.execute("create table teacher(name char(30),post char(30),salary int,address char(220),phone int,acno int)")

c.execute("create table cattendence(year int,month char(30),date varchar(30),class varchar(30),absent varchar(220))")

c.execute("create table tattendence(year int,month char(30),date varchar(30),absent varchar(220))")

c.execute("create table fees(name char(30),class int,roll_no int,Month varchar(22),fees int,date int)")

c.execute("create table salary(name char(30),month varchar(30),paid varchar(234))")
```

CREATING DEAFULT TABLE

```python
def deaf():
    c=con.cursor()
    c.execute("create table deafaultstudent(name char(30),class varchar(30),roll_no int,address varchar(220),phone int)")
```

```python
    c.execute("insert into
deafaultstudent(name,class,roll_no,address,phone)
values('{}',{},{},'{}',{})".format('raj
kapoor',12,10,'rdr',233455))

    c.execute("insert into
deafaultstudent(name,class,roll_no,address,phone)
values('{}',{},{},'{}',{})".format('jatin
kalra',12,1,'dineshpur',238655))

    c.execute("select*from deafaultstudent")

    print("select from this table any student you want
to remove")

    for i in c:

        print(i)

    l=int(input("class :"))

    r=int(input("Roll no:"))

    k="delete from deafaultstudent where roll_no={}
and class={}".format(r,l)

    c.execute(k)

    con.commit()

    print("STUDENT DETAILS DELETED SUCESSFULLY")
```

```python
    print(">----------------------<")
    main()


# TO STORE STUDENT DEATILS
def ast():
    n=int(input("class:"))

    m=input("names:")

    p=int(input("enter roll:"))

    ph=int(input("enter phone:"))

    d=input("enter address:")

    k="insert into
student(class,roll_no,phone,name,address)
values({},{},{},'{}','{}')".format(n,p,ph,m,d)

    c=con.cursor()

    c.execute(k)

    con.commit()

    print("STUDENT ADDED sucessfully")

    print(">----------------------<")

    main()
```

TO REMOVE STUDENT

```python
def rst():
    c=con.cursor()
    z="select*from student"
    c.execute(z)
    for i in c:
        print(i)
    l=int(input("Class:"))
    r=int(input("Roll no:"))
    c=con.cursor()
    k="delete from student where roll_no={} and class={}".format(r,l)
    c.execute(k)
    con.commit()
    print("STUDENT DELETED SUCCESSFULLY.")
    print(">---------------------<")
    main()
```

TO ADD TEACHER

```python
def addt():
    n=input("teacher name:")
    c=input("post:")
    r=int(input("Salary:"))
    a=input("address:")
    p=int(input("phone:"))
    m=int(input("Account no:"))
    k="insert into teacher(name,post,salary,address,phone,acno) values('{}','{}',{},'{}',{},{})".format(n,c,r,a,p,m)
    c=con.cursor()
    c.execute(k)
    con.commit()
    print("TEACHER ADDED sucesssfully")
    print(">----------------------<")
    main()
```

#TO REMOVE TEACHER

```python
def remt():
    c=con.cursor()
    z="select*from teacher"
    c.execute(z)
    for i in c:
        print(i)
    m=input("name:")
    r=int(input("Ac no. :"))
    c=con.cursor()
    k="delete from teacher where acno={}".format(r)

    c.execute(k)
    con.commit()
    print("TEACHER REMOVED")
    print(">----------------------<")
```

```python
    main()


#TO STORE ABSENT STUDENT NAME

def abclass():

    y=int(input("year:"))

    m=input("month:")

    d=eval(input("date:"))

    cl=int(input("class:"))

    ab=input("name of absent students:")

    sql="insert into cattendence
values({},'{}','{}',{},'{}')".format(y,m,d,cl,ab)

    c=con.cursor()

    c.execute(sql)

    con.commit()

    print("ABSENT STUDENT ADDED SUCCESSFULLY.")

    print(">----------------------<")

    main()
```

#TO STORE ABSENT TEACHER NAME

```python
def abteacher():
    y=int(input("year:"))
    m=input("month:")
    d=int(input("date:"))
    ab=input("name of absent Teacher:")
    sql="insert into tattendence
values({},'{}','{}','{}')".format(y,m,d,ab)
    c=con.cursor()
    c.execute(sql)
    con.commit()
    print("ABSENT TEACHER ADDED SUCCESSFULLY.")
    print(">----------------------<")
    main()
```

TO STORE FEES OF STUDENT

```python
def submitf():
```

```python
    n=input("student name:")

    c=int(input("class :"))

    r=input("Roll no:")

    m=input("month")

    f=int(input("fees:"))

    d=int(input("date:"))

    sql="insert into fees
values('{}',{},'{}','{}',{},{})".format(n,c,r,m,f,d)

    c=con.cursor()

    c.execute(sql)

    con.commit()

    print("FEES SUBMITTED sucesssfully")

    print(">----------------------<")

    main()


# TO STORE SALARY DEATILS
def pays():

    n=input("teacher name:")
```

```python
    m=input("Month:")

    p=input("PAID Yes/No:")

    sql="insert into salary
values('{}','{}','{}')".format(n,m,p)

    c=con.cursor()

    c.execute(sql)

    con.commit()

    print("data entered sucesssfully")

    print(">----------------------<")

    main()
```

TO DISPLAY STUDENTS

```python
def dclass():

    sql="select*from student "

    c=con.cursor()

    c.execute(sql)

    d=c.fetchall()

    for i in d:
```

```python
        print("NAME:",i[0])

        print("CLASS:",i[1])

        print("ROLL NO:",i[2])

        print("ADDRESS:",i[3])

        print("PHONE:",i[4])

        print(">------<")

    print(">--------------------<")

    main()
```

TO DISPLAY TEACHER

```python
def dteacher():

    sql="select*from teacher"

    c=con.cursor()

    c.execute(sql)

    d=c.fetchall()

    for i in d:

        print("NAME:",i[0])
```

```
        print("POST",i[1])

        print("SALARY:",i[2])

        print("ADDRESS:",i[3])

        print("PHONE:",i[4])

        print("ACNO:",i[5])

        print(">-------<")
    print(">---------------------<")
main()
```

```
#**************************************************
```

#THE MAIN FUNCTION OF PROGRAM

```
#**************************************************
#The Main()
def main():


    print(""""    JAYCEES PUBLIC SCHOOL


        1. ADD STUDENT    2. REMOVE STUDENT


        3. ADD TEACHER    4. REMOVE TEACHER


      5. CLASS Attendence(ADD ABSENT STUDENTS)


    6. TEACHER Attendence(ADD ABSENT TEACHERS)


            7. SUBMIT FEES    8. PAY SALARY


        9. dISPLAY CLASS    10. TEACHER LIST
```

```
        *for removing/displaying teacher first Add
Teacher(use "3")*

                     # TO BE RUN ONLY ONCE
""")
    Choice=input("ENTER TASK NO:")

    if (Choice=="1"):

        ast()

    elif (Choice=="2"):

        n=input("you want to remove student from
'default stored table' or table you have 'created now'
??? enter 'd' for default or 'c' for created now: ")

        if n=="c":

            rst()

        else:

            deaf()

    elif (Choice=="3"):

        addt()

    elif (Choice=="4"):
```

```python
        remt()
    elif (Choice=="5"):
        abclass()
    elif (Choice=="6"):
        abteacher()
    elif (Choice=="7"):
        submitf()
    elif (Choice=="8"):
        pays()
    elif (Choice=="9"):
        dclass()
    elif (Choice=="10"):
        dteacher()
    else:
        print("WRONG CHOICE!!!!!!!!")
        main()
def pasd():
    p=input("PASSWORD:")
```

```python
        print("Use  '1234' to access")


    if p=="1234":

        main()

    else:

        print("access denied!")

        print("Enter again:")

        pasd()
pasd()


#**************************************************
#*************** END OF PROJECT ***************
#**************************************************
```
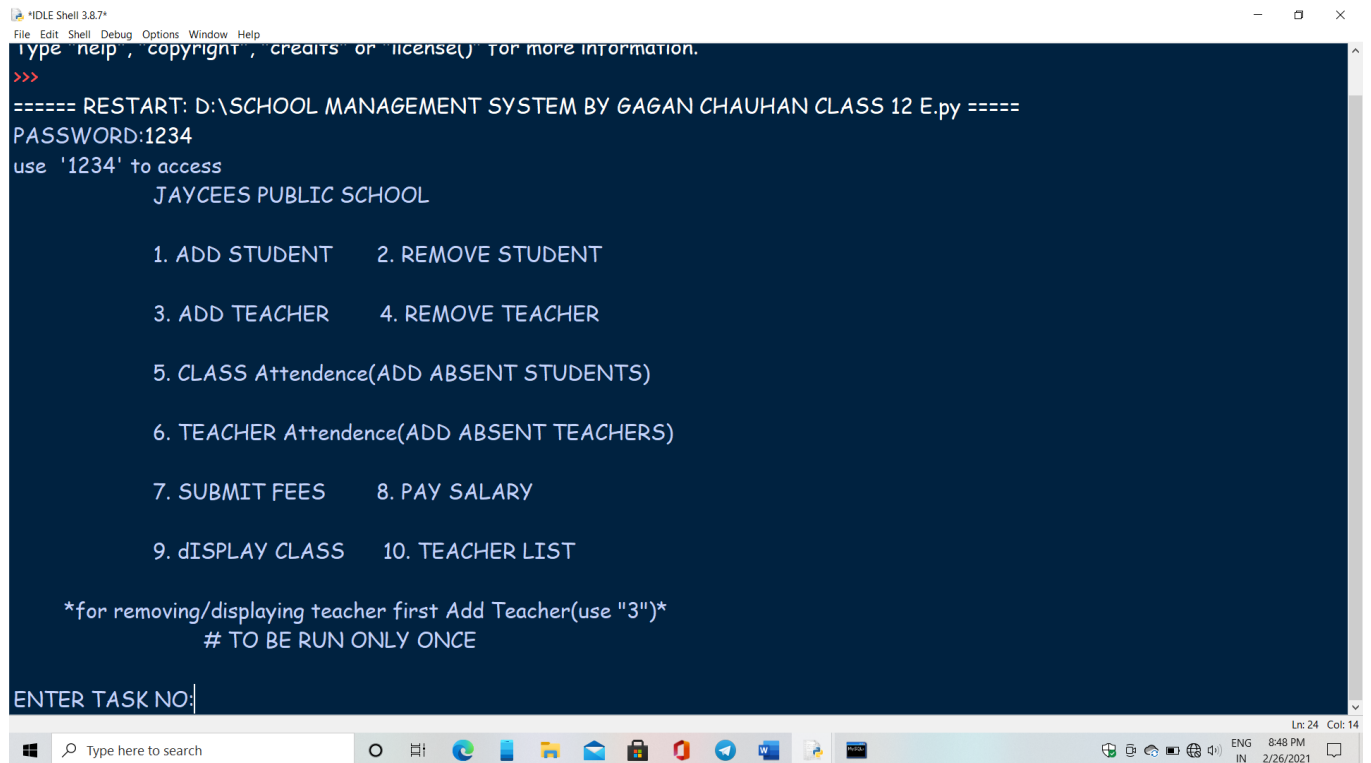
OUTPUT(SCREENSHOTS)

1. MAIN SCREEN

2.ADDING STUDENT DETAILS


```
ENTER TASK NO:1
class:12
names:kapil kalra
enter roll:4
enter phone:998462455
enter address:RDR
STUDENT ADDED sucessfully
>------------------------<
                JAYCEES PUBLIC SCHOOL

        1. ADD STUDENT      2. REMOVE STUDENT

        3. ADD TEACHER       4. REMOVE TEACHER

        5. CLASS Attendence(ADD ABSENT STUDENTS)

        6. TEACHER Attendence(ADD ABSENT TEACHERS)

        7. SUBMIT FEES       8. PAY SALARY

        9. dISPLAY CLASS     10. TEACHER LIST
```

3.REMOVING STUDENT


```
ENTER TASK NO:2
you want to remove student from 'default stored table' or table you have 'created now' ??? enter 'd' for default or 'c' for created now: c
('kapil kalra', 12, 4, 'RDR', 998462455)
Class:12
Roll no:4
STUDENT DELETED SUCCESSFULLY.
>------------------------<
                JAYCEES PUBLIC SCHOOL

        1. ADD STUDENT      2. REMOVE STUDENT

        3. ADD TEACHER       4. REMOVE TEACHER

        5. CLASS Attendence(ADD ABSENT STUDENTS)

        6. TEACHER Attendence(ADD ABSENT TEACHERS)

        7. SUBMIT FEES       8. PAY SALARY

        9. dISPLAY CLASS     10. TEACHER LIST
```

4.REMOVING STUDENT(DEFAULT STUDENTS)

```
*IDLE Shell 3.8.7*
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:2
you want to remove student from 'default stored table' or table you have 'created now' ??? enter 'd' for default or 'c' for created no
w: d
select from this table any student you want to remove
('raj kapoor', '12', 10, 'rdr', 233455)
('jatin kalra', '12', 1, 'dineshpur', 238655)
class :12
Roll no:1
STUDENT DETAILS DELETED SUCESSFULLY
>------------------------<
                JAYCEES PUBLIC SCHOOL

                1. ADD STUDENT       2. REMOVE STUDENT

                3. ADD TEACHER       4. REMOVE TEACHER

                5. CLASS Attendence(ADD ABSENT STUDENTS)

                6. TEACHER Attendence(ADD ABSENT TEACHERS)

                7. SUBMIT FEES       8. PAY SALARY
```

5.ADDIND NEW TEACHER DETAILS

```
*IDLE Shell 3.8.7*
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:3
teacher name:MR KK SHARMA
post:PGT
Salary:80000
address:RDR
phone:987667789
Account no:12345
TEACHER ADDED sucesssfully
>------------------------<
                JAYCEES PUBLIC SCHOOL

                1. ADD STUDENT       2. REMOVE STUDENT

                3. ADD TEACHER       4. REMOVE TEACHER

                5. CLASS Attendence(ADD ABSENT STUDENTS)

                6. TEACHER Attendence(ADD ABSENT TEACHERS)

                7. SUBMIT FEES       8. PAY SALARY

                9. dISPLAY CLASS     10. TEACHER LIST
```

6.REMOVING TEACHER DETAILS

```
*IDLE Shell 3.8.7*                                                    —  □  ×
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:4
('MR KK SHARMA', 'PGT', 80000, 'RDR', 89765980, 12345)
name:MR KK SHARMA
Ac no. :12345
TEACHER REMOVED
>------------------------<
                JAYCEES PUBLIC SCHOOL

        1. ADD STUDENT      2. REMOVE STUDENT

        3. ADD TEACHER      4. REMOVE TEACHER

        5. CLASS Attendence(ADD ABSENT STUDENTS)

        6. TEACHER Attendence(ADD ABSENT TEACHERS)

        7. SUBMIT FEES      8. PAY SALARY

        9. dISPLAY CLASS     10. TEACHER LIST

    *for removing/displaying teacher first Add Teacher(use "3")*
                # TO BE RUN ONLY ONCE
                                                            Ln: 71  Col: 51
```

7.ADDING ABSENT STUDENT NAMES

```
*IDLE Shell 3.8.7*                                                    —  □  ×
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:5
year:2021
month:March
date:12
class:12
name of absent students:RAM KAPOOR
ABSENT STUDENT ADDED SUCCESSFULLY.
>------------------------<
                JAYCEES PUBLIC SCHOOL

        1. ADD STUDENT      2. REMOVE STUDENT

        3. ADD TEACHER      4. REMOVE TEACHER

        5. CLASS Attendence(ADD ABSENT STUDENTS)

        6. TEACHER Attendence(ADD ABSENT TEACHERS)

        7. SUBMIT FEES      8. PAY SALARY

        9. dISPLAY CLASS     10. TEACHER LIST
                                                            Ln: 72  Col: 0
```

8.ADDING ABSENT TEACHER


```
ENTER TASK NO:6
year:2021
month:March
date:12
name of absent Teacher:Mr RJ KHANNA
ABSENT TEACHER ADDED SUCCESSFULLY.
>---------------------<
                JAYCEES PUBLIC SCHOOL

            1. ADD STUDENT     2. REMOVE STUDENT

            3. ADD TEACHER      4. REMOVE TEACHER

            5. CLASS Attendence(ADD ABSENT STUDENTS)

            6. TEACHER Attendence(ADD ABSENT TEACHERS)

            7. SUBMIT FEES     8. PAY SALARY

            9. dISPLAY CLASS    10. TEACHER LIST
```

9.SUBMITTING STUDENTS FEES


```
ENTER TASK NO:7
student name:RAJ KAPOOR
class :2
Roll no:12
monthJULY
fees:12000
date:25
FEES SUBMITTED sucesssfully
>---------------------<
                JAYCEES PUBLIC SCHOOL

            1. ADD STUDENT     2. REMOVE STUDENT

            3. ADD TEACHER      4. REMOVE TEACHER

            5. CLASS Attendence(ADD ABSENT STUDENTS)

            6. TEACHER Attendence(ADD ABSENT TEACHERS)

            7. SUBMIT FEES     8. PAY SALARY

            9. dISPLAY CLASS    10. TEACHER LIST
```

10.PAYING SALARY TO TEACHER

```
*IDLE Shell 3.8.7*
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:8
teacher name:MR ABHISHEK GUPTA
Month:Jan
PAID Yes/No:Yes
data entered sucesssfully
>-----------------------<
                JAYCEES PUBLIC SCHOOL

        1. ADD STUDENT      2. REMOVE STUDENT

        3. ADD TEACHER      4. REMOVE TEACHER

        5. CLASS Attendence(ADD ABSENT STUDENTS)

        6. TEACHER Attendence(ADD ABSENT TEACHERS)

        7. SUBMIT FEES      8. PAY SALARY

        9. dISPLAY CLASS     10. TEACHER LIST

    *for removing/displaying teacher first Add Teacher(use "3")*
                # TO BE RUN ONLY ONCE
```
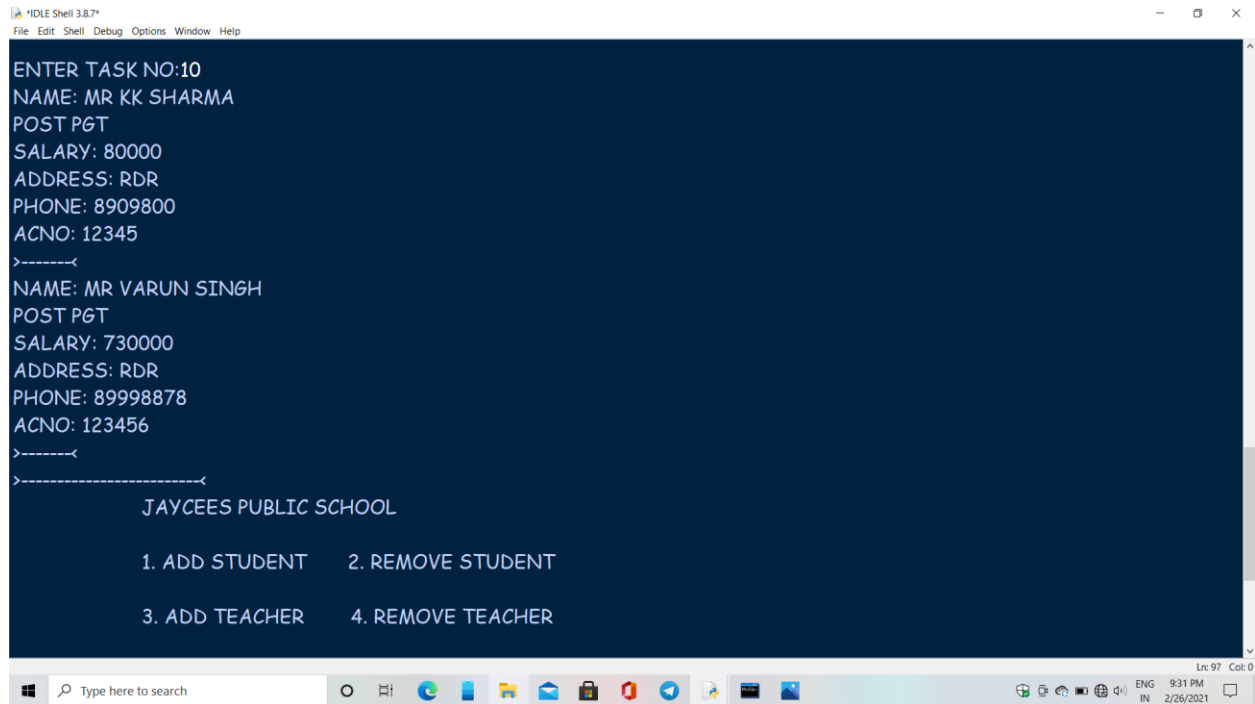
11.DISPLAYING CLASS

```
*IDLE Shell 3.8.7*
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:9
NAME: Aryan Chibb
CLASS: 12
ROLL NO: 1
ADDRESS: rdr
PHONE: 98976788
>-------<
NAME: AKSHIT Rajput
CLASS: 12
ROLL NO: 2
ADDRESS: rdr
PHONE: 98778
>-------<
>-------------------------<
                JAYCEES PUBLIC SCHOOL

        1. ADD STUDENT      2. REMOVE STUDENT

        3. ADD TEACHER      4. REMOVE TEACHER

        5. CLASS Attendence(ADD ABSENT STUDENTS)
```

12.DISPLAYING TEACHERS

```
*IDLE Shell 3.8.7*                                                    –  □  ×
File  Edit  Shell  Debug  Options  Window  Help

ENTER TASK NO:10
NAME: MR KK SHARMA
POST PGT
SALARY: 80000
ADDRESS: RDR
PHONE: 8909800
ACNO: 12345
>-------<
NAME: MR VARUN SINGH
POST PGT
SALARY: 730000
ADDRESS: RDR
PHONE: 89998878
ACNO: 123456
>-------<
>-----------------------<
                JAYCEES PUBLIC SCHOOL

       1. ADD STUDENT      2. REMOVE STUDENT

       3. ADD TEACHER      4. REMOVE TEACHER
                                                            Ln: 97  Col: 0
```

LIMITATION

- Does not support mouse.

- If some string is gives as input i.e. in place where integer should have been input, the program crashes and data file gets spoiled.

- Can only be Runed once.

- To remove teacher you need to add teacher details first.

Bibliography

- Sumita arora class 12
- Website:

  http://www.google.co.in

  http://www.wikipedia.com

THANK YOU