SOURCE CODE

#PROJECT ON SCHOOL MANGEMENT SYSTEM

#INCLUDING HEADER FILES

import mysql.connector

import matplotlib.pyplot as plt

import numpy as np

#definition for HOMEPAGE

def Homepage():

```
    print("\n\n\n")
    print("*************************")
    print("WELCOME TO MGM SCHOOL")
    print("1. ADMISSION")
    print("2. SEARCH")
    print("3. ISSUE OF TC")
    print("4. FEE DEATILS")
    print("5. REPORT")
    print("\n")
    print("***********************")
    op=int(input("Enter yuor option"))
    if op==1:
        admission()
    elif op==2:
        searchstud()
    elif op==3:
        tcissue()
```

```python
    elif op==4:
        feesection()
    elif op==5:
        report()
    else:
        print("Invalid option")


#Definition for Login Page
def login():
    print("\n\n\n\n")
    print("*****************************")
    print("WELCOME TO MGM SCHOOL")
    print("*********************")
    user=input("Enter user id:")
    pas=input("Enter password:")
    if user=="Admin" and pas=="mgm":
        print("SUCCESSFULLY LOGGED!!!!")
        print("***********************")
        Homepage()
    else:
        print("INVALID CREDENTIALS!!!")
        login()


#Definition for Admission Section
def admission():
    print("\n\n\n")
    print("*********************************")
    print("WELCOME TO MGM CPS")
    print("WELCOME YOU AS A STUDENT OF THIS SCHOOL")
    print("*************************************")
```

```python
    print("\n\n")
    s_adno=input("Enter Admission NUmber:")
    s_name=input("Enter student name:")
    s_classdiv=input("Enter classs and division:")
    s_dob=input("Enter your date of birth:")
    s_gender=input("Enter your gender:")
    s_pname=input("Enter parent name:")
    s_phoneno=input("Enter phone number:")
    s_fee=int(input("Enter total Fee for the whole year"))

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
    mycursor=con.cursor()
    string1="insert into student values('{}','{}','{}','{}','{}','{}','{}',{})".format(s_adno,s_name,s_classdiv,s_dob,s_gender,s_pname,s_phoneno,s_fee)
    mycursor.execute(string1)
    con.commit()
    con.close()
    print("SUCESSFULLY COMPLETED YOUR ADMISSION PROCESS!!!!!!")
    print("***********************************************")



#Definition for Student Search
def searchstud():
    print("\n\n\n")
    print("WELCOME TO MGM SCHOOL")
    print("1. STUDENT SEARCH")
    print("2. FEE PAYEMNT DETAILS")
    print("3. GO TO HOME PAGE")
```

```python
print("*******************************")
print("\n\n")
op=int(input("Enter your option"))
if op==1:
    c_adno=input("Enter the admission number of the student w want to search:")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
    mycursor=con.cursor()
    query="select adno,sname,classdiv,gender,dob,phoneno from student where adno='{}'".format(c_adno)
    mycursor.execute(query)
    myrecord=mycursor.fetchall()
    for x in myrecord:
        print(x)
    con.commit()
    con.close()
elif op==2:
    c_adno=input("Enter the admission number of the student w want to search:")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
    mycursor=con.cursor()
    query="select adno,sname,classdiv,totalfee,phoneno from student where adno='{}'".format(c_adno)
    mycursor.execute(query)
    myrecord=mycursor.fetchall()
    print("Adno\t\tName\t\t classdiv\t\ttotalfee\t\tphoneno")
    for x in myrecord:
        print(x[0],"\t\t",x[1],"\t\t",x[2],"\t\t",x[3],"\t\t",x[4])
```

```python
        con.commit()
        con.close()
```

#Definition for Issuing TC

```python
def tcissue():
    print("\n\n\n")
    print("WELCOME TO MGM SCHOOL")
    c_adno=input("Enter the admission number of the student w want to take TC :")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
    mycursor=con.cursor()
    query="delete from student where adno='{}'".format(c_adno)
    mycursor.execute(query)
    con.commit()
    con.close()
    print("SUCCESSFULLY REMOVED STUDENT DETAILS FROM DATABSE!!!!!")
```

#Definition for FeeSection Module.

```python
def feesection():
    print("\n\n\n\n")
    print("WELCOME TO MGM SCHOOL FEE SECTION")
    print("*******************************************")
    print("1. FEE CHECK")
    print("2. FEE PAYMENT")
    print("3. FEE DUE SEARCh")
    print("4. GO TO HOME")
    op=int(input("Enter your option:"))
    if op==1:
        print("\n\n\n")
```

```python
    print("WELCOME TO MGM SCHOOL FEE SECTION")
    c_adno=input("Enter the admission number of the student you want check fee balance")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip1
2")
    mycursor=con.cursor()
    query="select totalfee from student where adno='{}'".format(c_adno)
    mycursor.execute(query)
    myrecord=mycursor.fetchall()
    for x in myrecord:
        print(x[0],"is the balance amount you need to pay")
    con.close()
    print("SUCCESSFULLY SEARCHED FEE DUE!!!!!")
  elif op==2:
    print("\n\n\n")
    print("WELCOME TO MGM SCHOOL FEE SECTION")
    c_adno=input("Enter the admission number of the student for fee payment:")
    c_amount=int(input("Enter amount paying:"))

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip1
2")
    mycursor=con.cursor()
    query="update student set totalfee=totalfee-{} where
adno='{}'".format(c_amount,c_adno)
    mycursor.execute(query)
    con.commit()
    con.close()
    print("FEE PAYEMNET DONE SUCCESSFULLY !!!!!")
  elif op==3:
    print("\n\n\n")
```

```python
    print("WELCOME TO MGM SCHOOL FEE SECTION")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
    mycursor=con.cursor()
    query="select adno,sname,classdiv,totalfee,pname,phoneno from student order by totalfee desc"
    mycursor.execute(query)
    myrecord=mycursor.fetchall()
    print("\n\n\n")
    print("***********************************************************************")
    print("ADNO\t\tNAME\t\tCLASSDIV\t\tTOTALFEE\t\tPNAME\t\tPNO")
    for x in myrecord:
        print("\n",x[0],"\t\t",x[1],"\t\t",x[2],"\t\t",x[3],"\t\t",x[4],"\t\t",x[5])
    con.close()
    print("SUCCESSFULLY PRINTED FEE DUE LIST!!!!!")
  elif op==4:
    Homepage()
  else:
    print("invalid option")
```

#Definition for report() function.
```python
def report():
  print("\n\n\n\n")
  print("WELCOME TO MGM SCHOOL - REPORT SECTION")
  print("*************************************")
  print(" 1. REPORT BASED ON STUDENT STRENGTH")
  print("2. REPORT BASED ON PENDING AMOUNT")
  print("3. REPORT BASED ON FEE DUE SECTION WISE")
  print("4. GO HOME")
```

```python
op=int(input("Enter your option:"))
if op==1:
    print("\n\n\n\n")
    print("********************************")
    print("WELCOME TO MGM SCHOOL, REPORT SECTION")
    print("**************************************")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
    mycursor1=con.cursor()
    query1="select count(*) from student where classdiv like '1%' or classdiv like '2%' or classdiv like '3%' or classdiv like '4%'"
    mycursor1.execute(query1)
    myrecord1=mycursor1.fetchall()

    mycursor2=con.cursor()
    query2="select count(*) from student where classdiv like '5%' or classdiv like '6%' or classdiv like '7%' "
    mycursor2.execute(query2)
    myrecord2=mycursor2.fetchall()

    mycursor3=con.cursor()
    query3="select count(*) from student where classdiv like '8%' or classdiv like '9%' or classdiv like '10%' "
    mycursor3.execute(query3)
    myrecord3=mycursor3.fetchall()

    mycursor4=con.cursor()
    query4="select count(*) from student where classdiv like '11%' or classdiv like '12%' "
    mycursor4.execute(query4)
```

```python
        myrecord4=mycursor4.fetchall()

        xvalues=np.arange(1,5)
        y=[]
        for x in myrecord1:
            y.append(x[0])

        for x in myrecord2:
            y.append(x[0])

        for x in myrecord3:
            y.append(x[0])

        for x in myrecord4:
            y.append(x[0])
        plt.bar(xvalues,y,width=0.5,color=["red","green","blue","yellow"])
        plt.title("BAR GRAPH BASED ON STRENGTH")
        plt.xlabel("SECTION WISE")
        plt.ylabel("NUMBER WISE")
        xnames=["LP","UP","HIGH SCHHOL","HIGHER SECONDARY"]
        plt.xticks(xvalues,xnames,rotation=30)

    elif op==2:
        print("\n\n\n\n")
        print("*******************************")
        print("WELCOME TO MGM SCHOOL, REPORT SECTION")
        print("*************************************")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip1
2")
```

```python
mycursor1=con.cursor()
query1="select count(*) from student where totalfee=0"
mycursor1.execute(query1)
myrecord1=mycursor1.fetchall()

mycursor2=con.cursor()
query2="select count(*) from student where totalfee<=5000"
mycursor2.execute(query2)
myrecord2=mycursor2.fetchall()

mycursor3=con.cursor()
query3="select count(*) from student where totalfee> 5000 and totalfee<=10000"
mycursor3.execute(query3)
myrecord3=mycursor3.fetchall()

mycursor4=con.cursor()
query4="select count(*) from student where totalfee>10000"
mycursor4.execute(query4)
myrecord4=mycursor4.fetchall()

xvalues=np.arange(1,5)
y=[]
for x in myrecord1:
    y.append(x[0])

for x in myrecord2:
    y.append(x[0])

for x in myrecord3:
    y.append(x[0])
```

```python
        for x in myrecord4:
            y.append(x[0])
        plt.bar(xvalues,y,width=0.5,color=["red","green","blue","yellow"])
        plt.title("BAR GRAPH BASED ON FEE DUE")
        plt.xlabel("AMOUNT RANGE")
        plt.ylabel("NUMBER WISE")
        xnames=["No Fee","<5000",">5000 and <10000",">10000"]
        plt.xticks(xvalues,xnames,rotation=30)
    elif op==3:
        print("\n\n\n\n")
        print("*******************************")
        print("WELCOME TO MGM SCHOOL, REPORT SECTION")
        print("*************************************")

con=mysql.connector.connect(host="localhost",user="root",password="mgm",database="ip12")
        mycursor1=con.cursor()
        query1="select sum(totalfee) from student where classdiv like '1%' or classdiv like '2%' or classdiv like '3%' or classdiv like '4%'"
        mycursor1.execute(query1)
        myrecord1=mycursor1.fetchall()

        mycursor2=con.cursor()
        query2="select sum(totalfee) from student where classdiv like '5%' or classdiv like '6%' or classdiv like '7%' "
        mycursor2.execute(query2)
        myrecord2=mycursor2.fetchall()

        mycursor3=con.cursor()
```

```
        query3="select sum(totalfee) from student where classdiv like '8%' or classdiv like '9%'
or classdiv like '10%' "
        mycursor3.execute(query3)
        myrecord3=mycursor3.fetchall()

        mycursor4=con.cursor()
        query4="select sum(totalfee) from student where classdiv like '11%' or classdiv like
'12%' "
        mycursor4.execute(query4)
        myrecord4=mycursor4.fetchall()

        xvalues=np.arange(1,5)
        y=[]
        for x in myrecord1:
            y.append(x[0])

        for x in myrecord2:
            y.append(x[0])

        for x in myrecord3:
            y.append(x[0])

        for x in myrecord4:
            y.append(x[0])
        xnames=["LP","UP","HIGH SCHHOL","HIGHER SECONDARY"]
        plt.pie(y,colors=["red","green","blue","yellow"],labels=xnames)
        plt.title("PIE GRAPH BASED ON FEE DUE SECTION WISE")
    elif op==4:
        Homepage()
    else:
```

```
    print("Invalid option")
```

##CALLING LOGIN SECTION - STARTNG OF THE PROGRAM
login()

OUTPUT

Login Section

```
*****************************
WELCOME TO MGM SCHOOL
*****************************

Enter user id:Admin

Enter password:mgm
SUCCESSFULLY LOGGED!!!!
*****************************




*****************************
WELCOME TO MGM SCHOOL
1. ADMISSION
2. SEARCH
3. ISSUE OF TC
4. FEE DEATILS
5. REPORT


*****************************

Enter yuor option|
```

New Admission

```
**********************************
WELCOME TO MGM CPS
WELCOME YOU AS A STUDENT OF THIS SCHOOL
**********************************



Enter Admission NUmber:GS1000

Enter student name:Minimol

Enter classs and division:12B

Enter your date of birth:12-09-2000

Enter your gender:Femala

Enter parent name:Devu

Enter phone number:657646

Enter total Fee for the whole year40000
SUCESSFULLY COMPLETED YOUR ADMISSION PROCESS!!!!!!
**********************************************
```

Student Search:

```
WELCOME TO MGM SCHOOL
1. STUDENT SEARCH
2. FEE PAYEMNT DETAILS
3. GO TO HOME PAGE
********************************




Enter your option1

Enter the admission number of the student w want to
search:GS100
('GS100', 'Karthika', '10A', '12-09-2003', 'Female', '85645')
```

Fee search

```
WELCOME TO MGM SCHOOL
1. STUDENT SEARCH
2. FEE PAYEMNT DETAILS
3. GO TO HOME PAGE
********************************




Enter your option2

Enter the admission number of the student w want to search:Gs200
Adno            Name            classdiv            totalfee            phoneno
GS200           Bharathi            5A              20000          242354
```

Issue of TC

```
**************************
WELCOME TO MGM SCHOOL
1. ADMISSION
2. SEARCH
3. ISSUE OF TC
4. FEE DEATILS
5. REPORT


***********************
Enter yuor option3




WELCOME TO MGM SCHOOL

Enter the admission number of the student w want to take TC :GS1000
SUCCESSFULLY REMOVED STUDENT DETAILS FROM DATABSE!!!!!
```

Fee check

```
WELCOME TO MGM SCHOOL FEE SECTION
****************************************************
1. FEE CHECK
2. FEE PAYMENT
3. FEE DUE SEARCh
4. GO TO HOME

Enter your option:1



WELCOME TO MGM SCHOOL FEE SECTION

Enter the admission number of the student you want check fee balanceGS200
20000 is the balance amount you need to pay
SUCCESSFULLY SEARCHED FEE DUE!!!!!
```

Fee Payment

```
WELCOME TO MGM SCHOOL FEE SECTION
***********************************************
1. FEE CHECK
2. FEE PAYMENT
3. FEE DUE SEARCh
4. GO TO HOME

Enter your option:2



WELCOME TO MGM SCHOOL FEE SECTION

Enter the admission number of the student for fee payment:Gs200

Enter amount paying:1000
FEE PAYEMNET DONE SUCCESSFULLY !!!!!
```

Fee Due List

```
************************************************
1. FEE CHECK
2. FEE PAYMENT
3. FEE DUE SEARCh
4. GO TO HOME

Enter your option:3



WELCOME TO MGM SCHOOL FEE SECTION


*************************************************************
ADNO        NAME        CLASSDIV        TOTALFEE    PNAME       PNO
GS600       Nayana      7B              60000       ponni       234235
GS700       Rahul       12A             50000       Reena       54632
GS400       Arjun       2B              30000       Savitha     3465646
GS500       Navaneeth   4B              30000       Ponni       3432534
GS300       Anu         1A              20000       Sheela      234536
GS200       Bharathi    5A              19000       pournami    242354
GS100       Karthika    10A             9900        Thushara    85645
SUCCESSFULLY PRINTED FEE DUE LIST:::::!
```
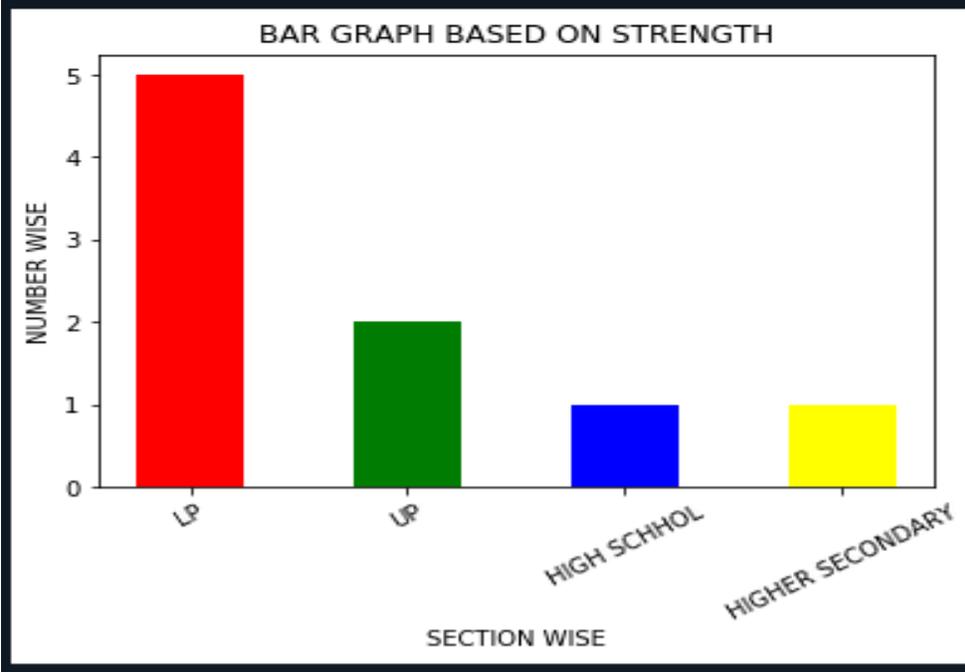
Report Based On Strength:

```
 1.  REPORT  BASED  ON  STUDENT  STRENGTH
2.  REPORT  BASED  ON  PENDING  AMOUNT
3.  REPORT  BASED  ON  FEE  DUE  SECTION  WISE
4.  GO  HOME

Enter  your  option:1




*********************************
WELCOME  TO  MGM  SCHOOL,  REPORT  SECTION
*****************************************
```


Report Based on Fee Payment

```
WELCOME TO MGM SCHOOL - REPORT SECTION
****************************************
 1. REPORT BASED ON STUDENT STRENGTH
2. REPORT BASED ON PENDING AMOUNT
3. REPORT BASED ON FEE DUE SECTION WISE
4. GO HOME

Enter your option:2




************************************
WELCOME TO MGM SCHOOL, REPORT SECTION
****************************************
```


BAR GRAPH BASED ON FEE DUE
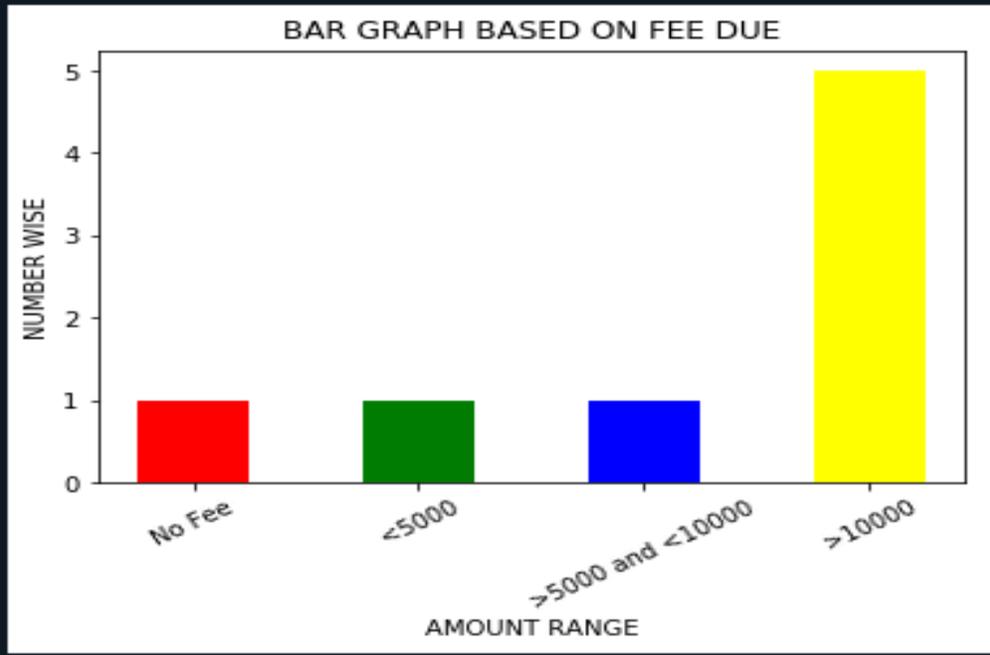
Report Based on Fee Due Section wise.


```
WELCOME TO MGM SCHOOL - REPORT SECTION
*****************************************
 1. REPORT BASED ON STUDENT STRENGTH
2. REPORT BASED ON PENDING AMOUNT
3. REPORT BASED ON FEE DUE SECTION WISE
4. GO HOME

Enter your option:3



************************************
WELCOME TO MGM SCHOOL, REPORT SECTION
*****************************************
```

PIE GRAPH BASED ON FEE DUE SECTION WISE
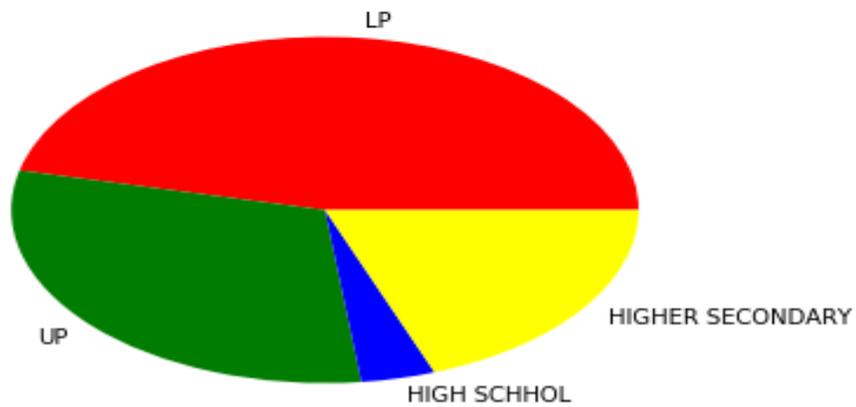
CONCLUSION

This project was completed on time and is found working effectively under all circumstances that may arise in real environment. The program objective specifies on the requirement is believed to be met. Using the facilities and functionalities of python and mysql , the program has been developed in neat manner.

This program is simple and user friendly. The speed and accuracy are maintained in proper way. Testing of the program has given good result.

The program is done with an insight into necessary modifications that is required in the future.

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