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()
```

```
    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("****************************************")
```

```
    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")
```

```
    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="ip1
2")
        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="ip1
2")
        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])
```

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

#Definition for Issuing TC
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.
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")
```

```
        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="ip12")
        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="ip12")
        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")
```

```
        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.

```
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")
```

```
    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)
```

```
        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="ip12")
```

```
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])
```

```
        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:
```

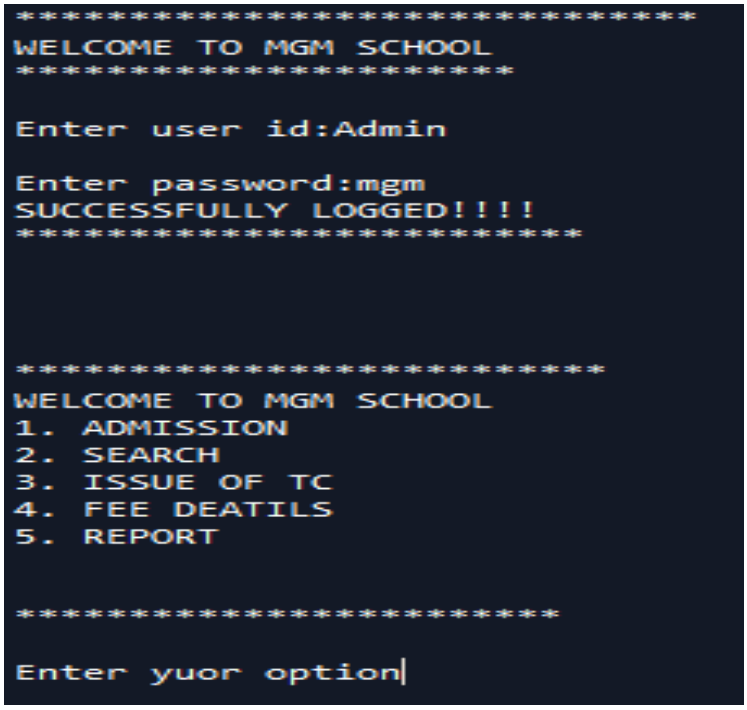
```
    print("Invalid option")
```

##CALLING LOGIN SECTION - STARTNG OF THE PROGRAM

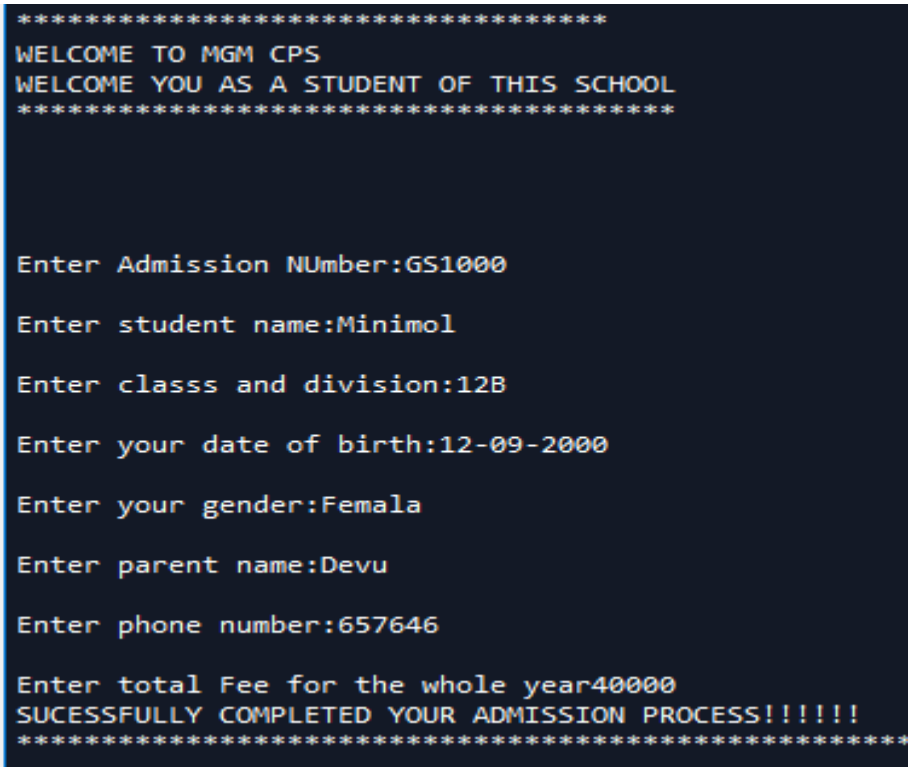
login()

OUTPUT

Login Section



New Admission



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 LIS!!!!!
```

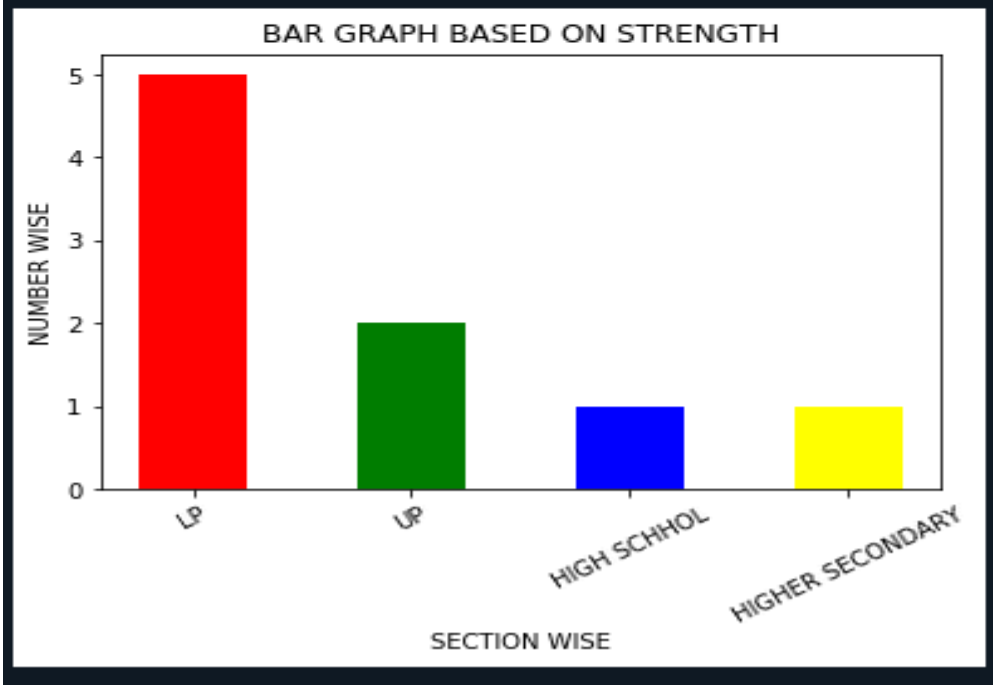
Report Based On Strength:

```
 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
**********************************
```



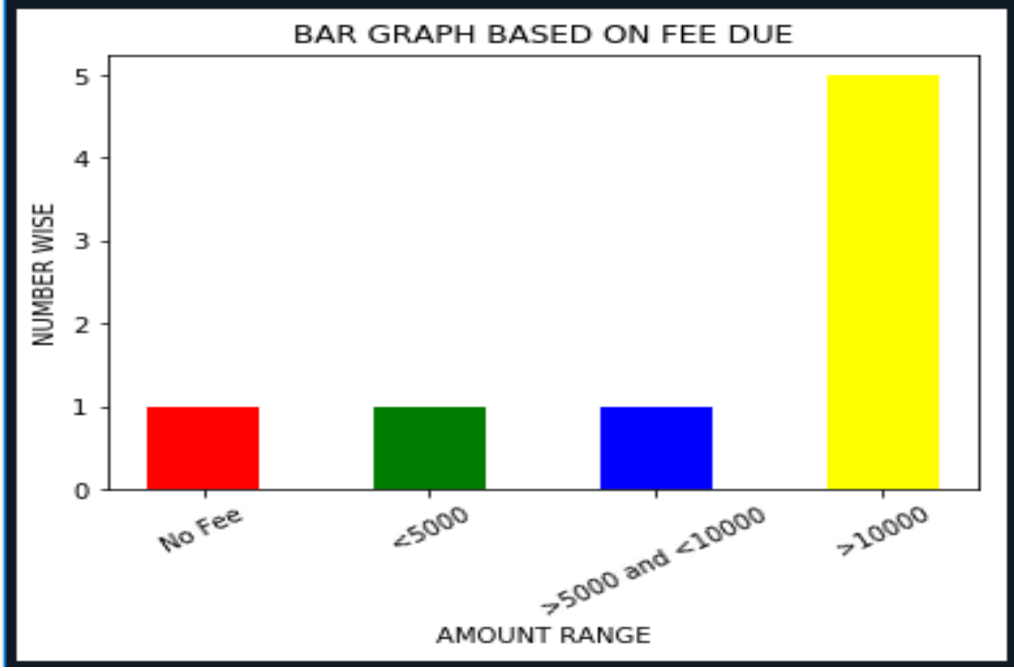
Report Based on Fee Payment

```
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
**********************************
```



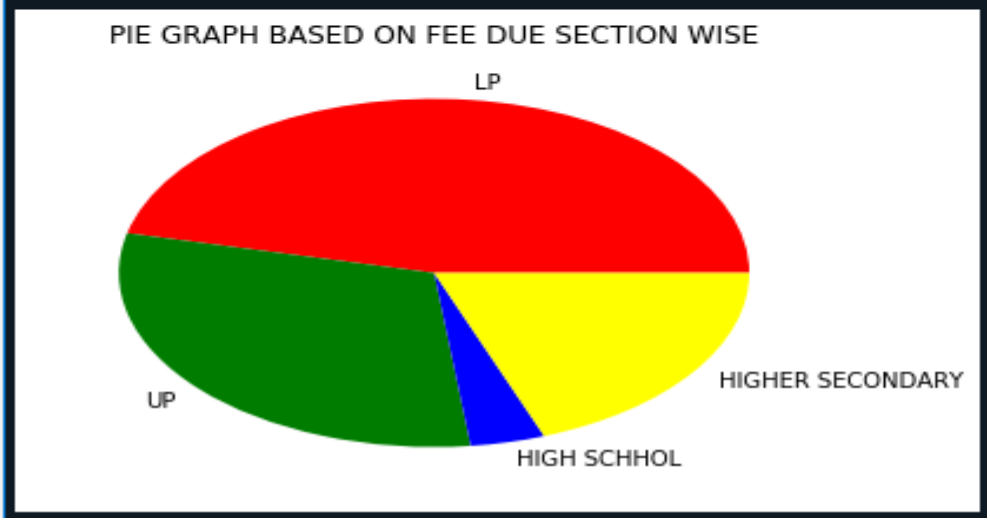
Report Based on Fee Due Section wise.

```
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
**************************************
```



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.

BIBLIOGRAPHY

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