Student Examination Portal

Submitted by

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Class Roll Number: 94
Stream: CSE
Subject: Programming for Problem Solving with Python
Subject Code: IVC101
Department: Basic Science and Humanities

Under the supervision of
Dr. Indrajit De

Academic Year: 2022-26

PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE FIRST SEMESTER

DEPARTMENT OF BASIC SCIENCE AND HUMANITIES
INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

IEM

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CERTIFICATE OF RECOMMENDATION

We hereby recommend that the project prepared under our supervision by **Promit Banerjee,** entitled “Student Examination Portal”be accepted in partial fulfillment of the requirements for the degree of partial fulfillment of the first semester.

Head of the Department
Basic Sciences and Humanities
IEM, Kolkata

Project Supervisor

1 Introduction

In this “Student Examination Portal” project we can create a student database and link that database to the databases of Batches, Courses and Departments and generate an examination report card.

1.1 Objective

Create a student’s database of his/her batch, course, department, examination details and generate a report card.

1.2 Organization of the Project

First we execute the moduleselection.py file there we can find a menu selection with four options:

1. Create a student database.
2. View Batch database.
3. View Course database.
4. View Department database.

If we select the first option it will execute the stdmanagement.py file placed in the same directory and create a student database step by step. It will store its data in the Student.csv, Batch.csv, Course.csv, Department.csv simultaneously. It will also show the report card of the student, plot graph, pie chart and histogram grade wise.

If we select the second option it will allow us to see the detailed Batch database stored till now.

If we select the second option it will allow us to see the detailed Course database stored till now.

If we select the second option it will allow us to see the detailed Department database stored till now.

2 Database Descriptions

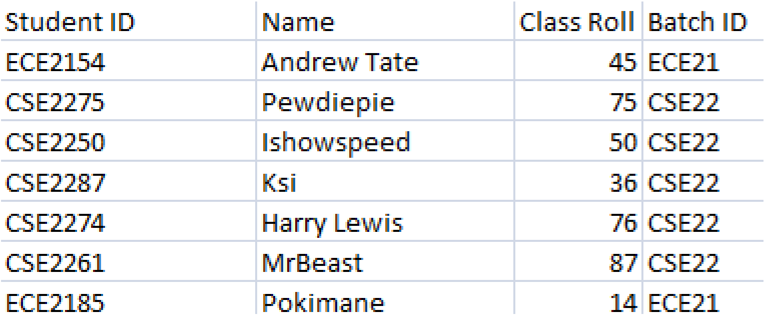
The Student.csv database contains the name and ID of the students in a particular batch and department.

The Batch.csv database contains Batch Id, Batch name, Department name and list of courses and students enrolled in the department.

The Course.csv database contains the course ID of each course and marks of each student enrolled in the particular course.

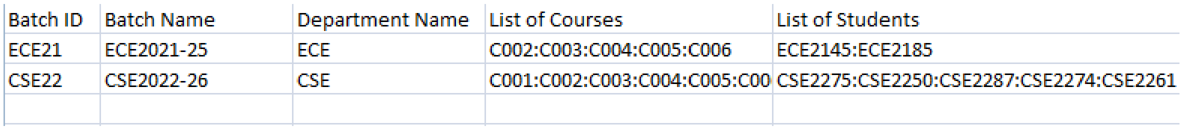
The Department.csv database contains details of each department.

2.1 Database Samples



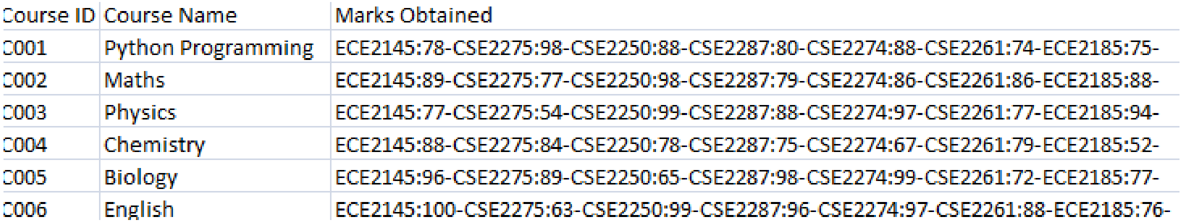
Student ID	Name	Class Roll	Batch ID
ECE2154	Andrew Tate	45	ECE21
CSE2275	Pewdiepie	75	CSE22
CSE2250	Ishowspeed	50	CSE22
CSE2287	Ksi	36	CSE22
CSE2274	Harry Lewis	76	CSE22
CSE2261	MrBeast	87	CSE22
ECE2185	Pokimane	14	ECE21

Student.csv



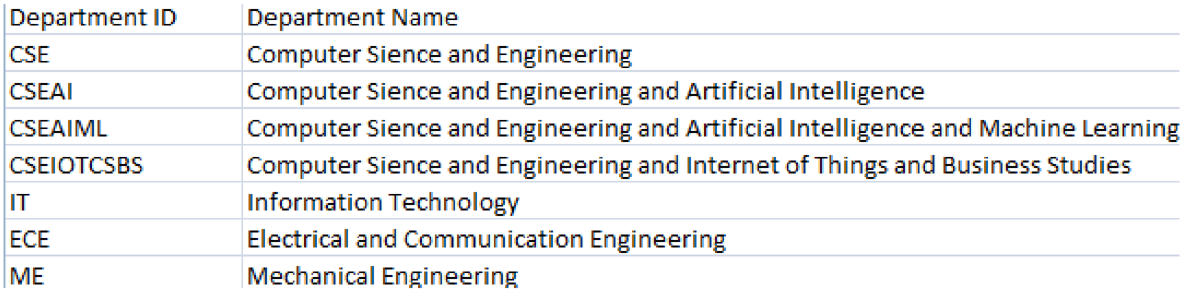
Batch ID	Batch Name	Department Name	List of Courses	List of Students
ECE21	ECE2021-25	ECE	C002:C003:C004:C005:C006	ECE2145:ECE2185
CSE22	CSE2022-26	CSE	C001:C002:C003:C004:C005:C00	CSE2275:CSE2250:CSE2287:CSE2274:CSE2261

Batch.csv



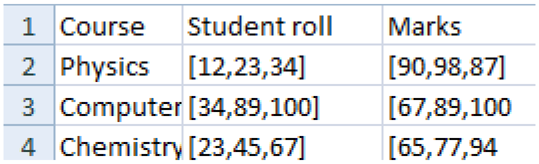
Course ID	Course Name	Marks Obtained
C001	Python Programming	ECE2145:78-CSE2275:98-CSE2250:88-CSE2287:80-CSE2274:88-CSE2261:74-ECE2185:75-
C002	Maths	ECE2145:89-CSE2275:77-CSE2250:98-CSE2287:79-CSE2274:86-CSE2261:86-ECE2185:88-
C003	Physics	ECE2145:77-CSE2275:54-CSE2250:99-CSE2287:88-CSE2274:97-CSE2261:77-ECE2185:94-
C004	Chemistry	ECE2145:88-CSE2275:84-CSE2250:78-CSE2287:75-CSE2274:67-CSE2261:79-ECE2185:52-
C005	Biology	ECE2145:96-CSE2275:89-CSE2250:65-CSE2287:98-CSE2274:99-CSE2261:72-ECE2185:77-
C006	English	ECE2145:100-CSE2275:63-CSE2250:99-CSE2287:96-CSE2274:97-CSE2261:88-ECE2185:76-

Course.csv



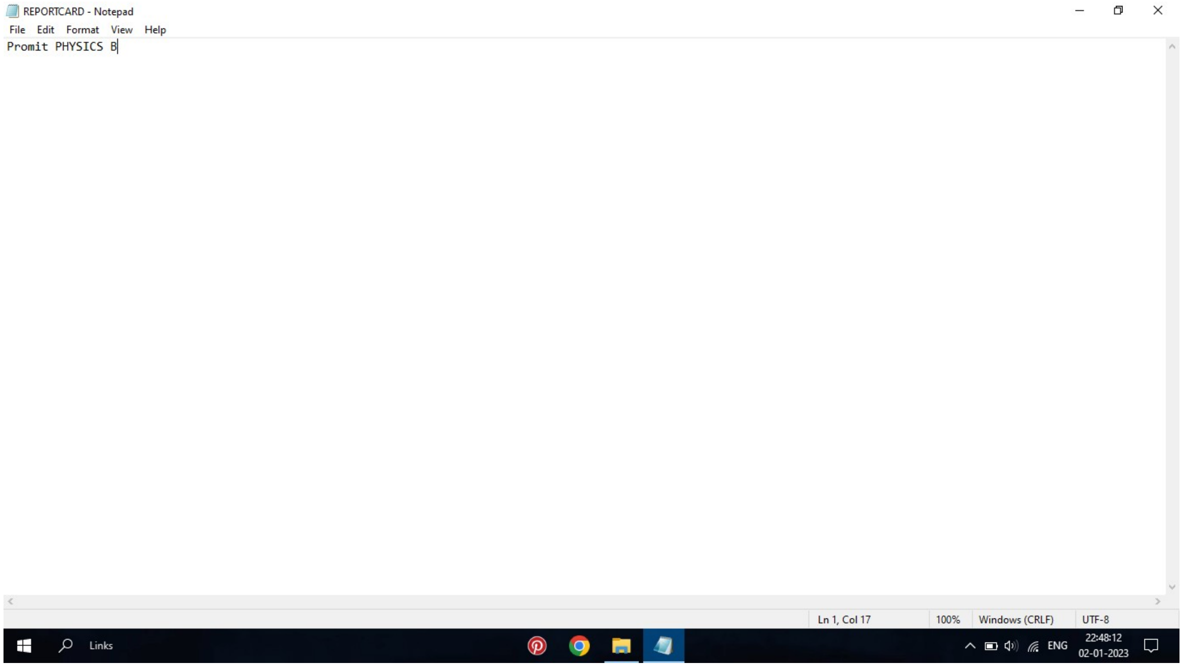
Department ID	Department Name
CSE	Computer Sience and Engineering
CSEAI	Computer Sience and Engineering and Artificial Intelligence
CSEAIML	Computer Sience and Engineering and Artificial Intelligence and Machine Learning
CSEIOTCSBS	Computer Sience and Engineering and Internet of Things and Business Studies
IT	Information Technology
ECE	Electrical and Communication Engineering
ME	Mechanical Engineering

Department.csv



1	Course	Student roll	Marks
2	Physics	[12,23,34]	[90,98,87]
3	Computer	[34,89,100]	[67,89,100
4	Chemistry	[23,45,67]	[65,77,94

<u>Examination.csv</u>



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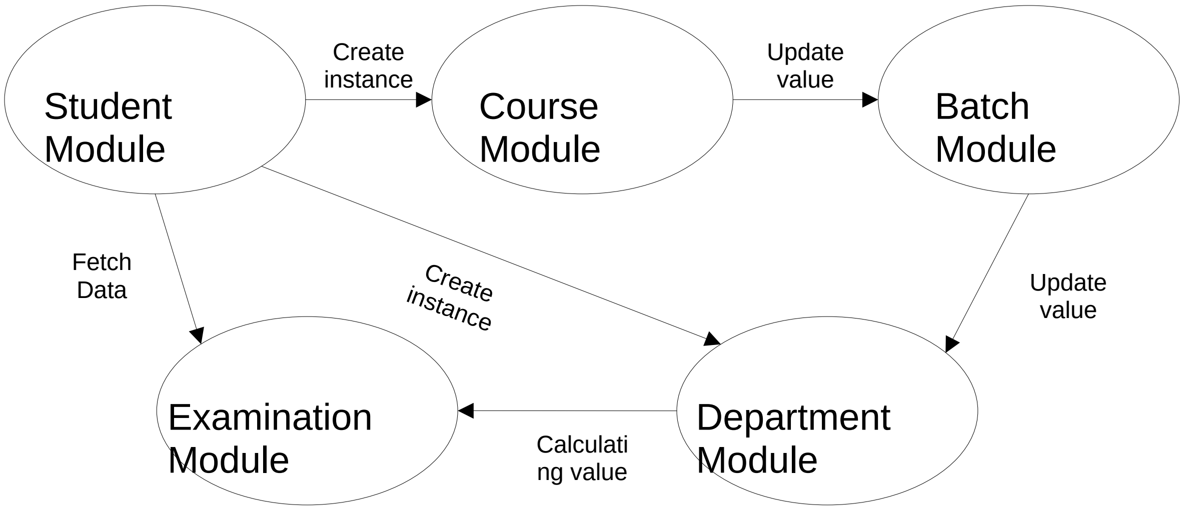
Promit PHYSICS B
```

<u>Sample Report Card</u>

3 Data Flow and E-R Diagrams



4 Programs

Provide the python programs of the various modules.

1) rootDir/moduleselection.py

```
importpandasaspd

print("1.Creating a student database.")
print("2.View Batch database.")
print("3.View Course database.")
print("4.View Departments database.")
a = int(input("Enter the module number you want to open: "))
ifa==1:
importstdmanagement
exec('stdmanagement.py')
elifa==2:
df = pd.read_csv('Batch.csv')

print(df)
elifa==3:
df = pd.read_csv('Course.csv')

print(df)
elifa==4:
df = pd.read_csv('Department.csv')
```

```
print(df)
```

2) rootDir/stdmanagement.py

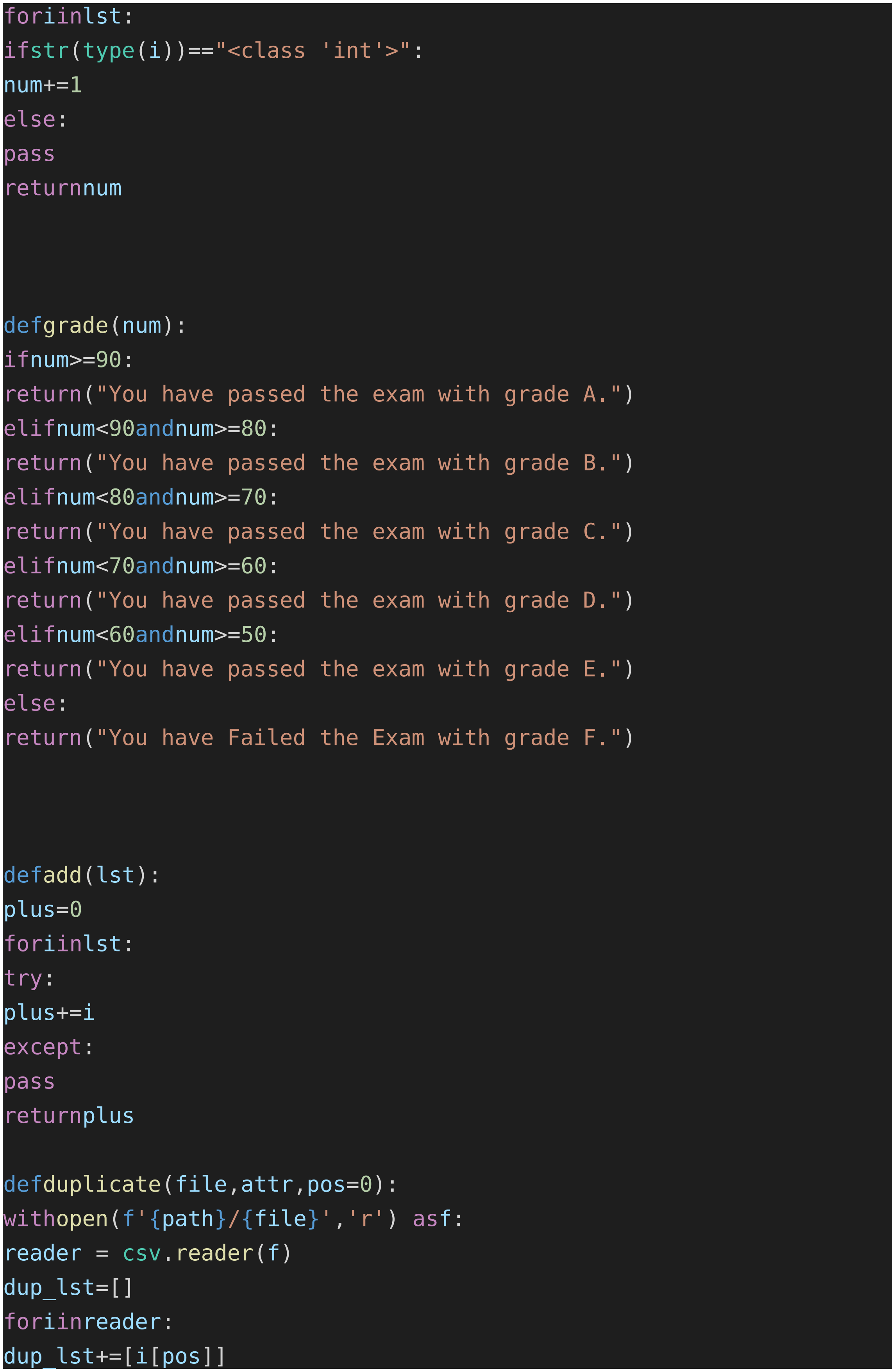
```
importos
importcsv
importsubprocess
importtime
importsys
print("                                 *****STUDENT MANAGEMENT SYSTEM*****                                   ")
try:
importmatplotlib.pyplotasplt
except:
subprocess.run(['pip', 'install', 'matplotlib'])
importmatplotlib.pyplotasplt

path='C:/StudentManagement_main-folder'




defpercent(num):
ifstream.lower()=='cse'orstream.lower()=='cseai'orstream.lower()=='cseaiml'orstream.lower()=='cseiotcsbs':
num=(num*100)//600
elifstream.lower()=='it'orstream.lower()=='ece'orstream.lower()=='me':
num=(num*100)//500
returnnum
defcreatefile(name,lst):
withopen(f'{path}/{name}','a',newline='')asf:
script= csv.writer(f)
script.writerow(lst)
print(f"{name} file has been SAVED!!")


defcount(lst):
num=0
```



```
foriinlst:
ifstr(type(i))=="<class 'int'>":
num+=1
else:
pass
returnnum



defgrade(num):
ifnum>=90:
return("You have passed the exam with grade A.")
elifnum<90andnum>=80:
return("You have passed the exam with grade B.")
elifnum<80andnum>=70:
return("You have passed the exam with grade C.")
elifnum<70andnum>=60:
return("You have passed the exam with grade D.")
elifnum<60andnum>=50:
return("You have passed the exam with grade E.")
else:
return("You have Failed the Exam with grade F.")



defadd(lst):
plus=0
foriinlst:
try:
plus+=i
except:
pass
returnplus

defduplicate(file,attr,pos=0):
withopen(f'{path}/{file}','r') asf:
reader = csv.reader(f)
dup_lst=[]
foriinreader:
dup_lst+=[i[pos]]
```

```
ifattrindup_lst:
returnTrue
else:
returnFalse

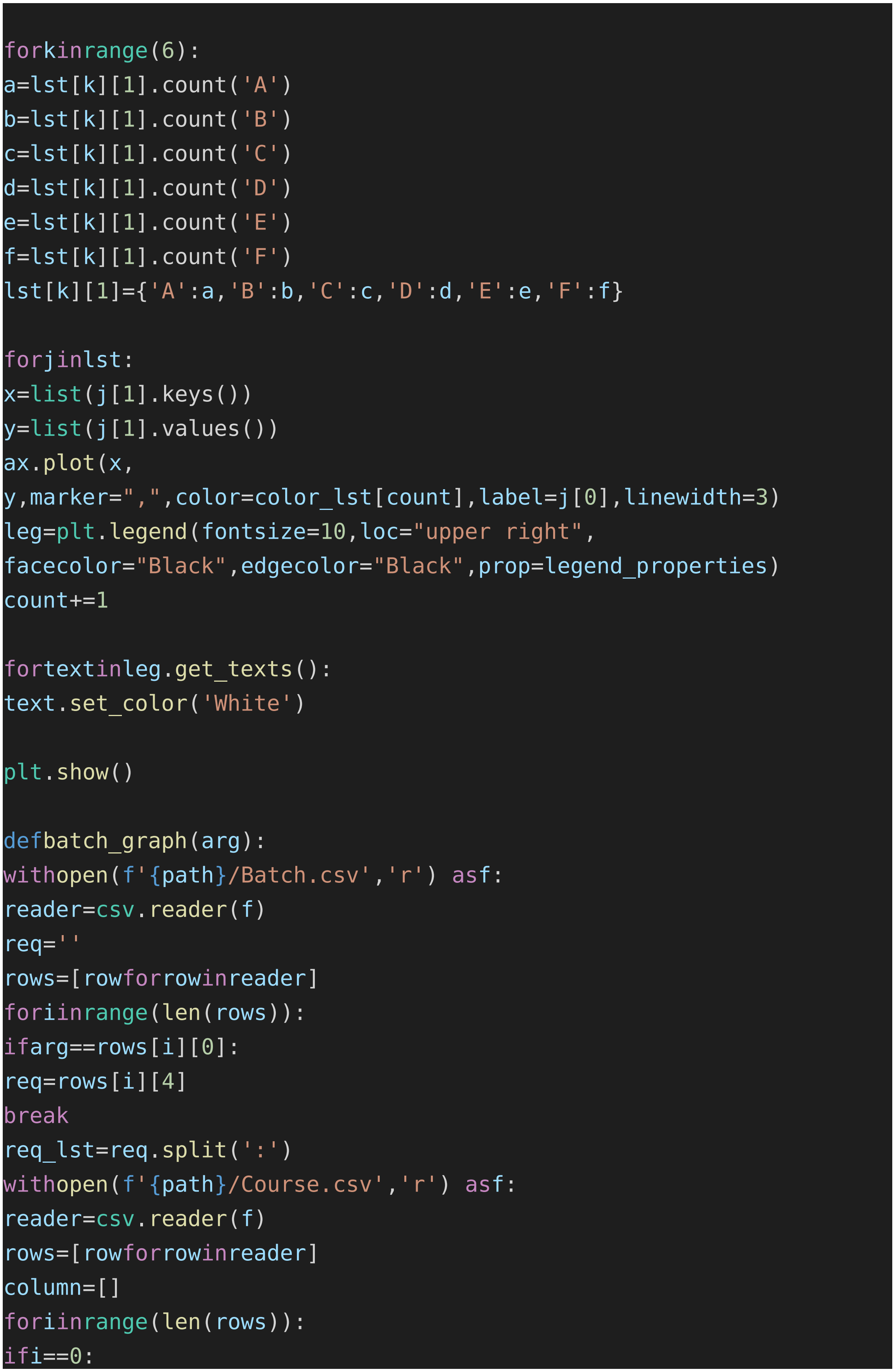
defchoice(stream):
ifstream.lower()=='cse'orstream.lower()=='cseai'orstream.lower()=='
cseaiml'orstream.lower()=='cseiotcsbs':
return ("C001:C002:C003:C004:C005:C006")
elifstream.lower()=='it'orstream.lower()=='ece'orstream.lower()=='m
e':
return ("C002:C003:C004:C005:C006")

defget_batch():
withopen(f'C:/StudentManagementSystem_main-folder/Batch.csv','r')
asf:
reader=csv.reader(f)
rows=[rowforrowinreader]
column=[]
foriinrange(len(rows)):
ifi==0:
pass
else:
column+=[rows[i][0]]
returncolumn

defremove(string):
withopen(f'C:/StudentManagementSystem_main-folder/
Student.csv','r+',newline='') asf:
script=csv.reader(f)
rows=[rowforrowinscript]
foriinrows:
ifi[0]==string:
rows[rows.index(i)]=['','','','']
else:
pass
f.seek(0)
f.truncate()
writer=csv.writer(f)
writer.writerows(rows)
```

```
defcourse_graph():
color_lst=['#C70039','#9BB1F2','#FFC300','#FF5733','#DAAFB1','#86B7
C8']
fig, ax = plt.subplots()
legend_properties = {'weight':'heavy'}
ax.set_facecolor("Black")
ax.tick_params(axis="both", colors="white")
fig.set_facecolor("Black")
ax.set_xlabel('Grades--------->', color="white")
ax.set_ylabel('No. of Students--------->', color="white")
ax.spines["bottom"].set_color("white")
ax.spines["left"].set_color("white")
ax.xaxis.label.set_weight("heavy")
ax.yaxis.label.set_weight("heavy")
count=0
withopen(f'{path}/Course.csv','r')asf:
script= csv.reader(f)
rows=[rowforrowinscript]
req=[]
foriinrange(len(rows)):
ifi==0:
pass
else:
req+=[rows[i][2]]
lst=[['Problem Solving with Python',(req[0].split('-'))[0:-1]],
             ['Mathematics',(req[1].split('-'))[0:-1]],
             ['Physics',(req[2].split('-'))[0:-1]],
             ['Chemistry',(req[3].split('-'))[0:-1]],
             ['Biology',(req[4].split('-'))[0:-1]],
             ['English',(req[5].split('-'))[0:-1]]]

foriinrange(len(lst)):
forjinrange(len(lst[i][1])):
try:
lst[i][1][j]=grade(int((lst[i][1][j].split(':'))[-1]))[-2]
except:
lst[i][1][j]=''
```



```
forkinrange(6):
a=lst[k][1].count('A')
b=lst[k][1].count('B')
c=lst[k][1].count('C')
d=lst[k][1].count('D')
e=lst[k][1].count('E')
f=lst[k][1].count('F')
lst[k][1]={'A':a,'B':b,'C':c,'D':d,'E':e,'F':f}

forjinlst:
x=list(j[1].keys())
y=list(j[1].values())
ax.plot(x,
y,marker=",",color=color_lst[count],label=j[0],linewidth=3)
leg=plt.legend(fontsize=10,loc="upper right",
facecolor="Black",edgecolor="Black",prop=legend_properties)
count+=1

fortextinleg.get_texts():
text.set_color('White')

plt.show()

defbatch_graph(arg):
withopen(f'{path}/Batch.csv','r') asf:
reader=csv.reader(f)
req=''
rows=[rowforrowinreader]
foriinrange(len(rows)):
ifarg==rows[i][0]:
req=rows[i][4]
break
req_lst=req.split(':')
withopen(f'{path}/Course.csv','r') asf:
reader=csv.reader(f)
rows=[rowforrowinreader]
column=[]
foriinrange(len(rows)):
ifi==0:
```

```
pass
else:
column+=[rows[i][2]]
new_column=[]
forjinrange(len(column)):
new_column+=(column[j].split('-'))[0:-1]
new_req_lst=[]
temp=[]
foriinreq_lst:
forjinrange(len(new_column)):
ifiinnew_column[j]:
temp+=[(new_column[j].split(':'))[-1]]
new_req_lst+=[[[i]]+[temp]]
temp=[]
lst=[]
temp=0
grade_lst=[]
foriinrange(len(new_req_lst)):
forjinrange(6):
try:
temp+=int(new_req_lst[i][1][j])
except:
pass
lst+=[new_req_lst[i][0]+[temp]]
temp=0
foriinrange(len(lst)):
iflst[i][0][:3]=='CSE':
grade_lst+=[grade((lst[i][1]*100)//600)[-2]]
lst[i][1]=grade((lst[i][1]*100)//600)[-2]
else:
grade_lst+=[grade((lst[i][1]*100)//500)[-2]]
lst[i][1]=grade((lst[i][1]*100)//500)[-2]
grade_no_lst={'A':grade_lst.count('A'),'B':grade_lst.count('B'),'C':grade_lst.count('C'),'D':grade_lst.count('D'),'E':grade_lst.count('E'),'F':grade_lst.count('F')}

labels = list(grade_no_lst.keys())
sizes = list(grade_no_lst.values())
color_lst=['#C70039','#9BB1F2','#FFC300','#FF5733','#DAAFB1','#86B7C8']
```

```
explode = (0.01,0.1,0.02,0.05,0.03,0.1)
new_labels=[]
foriinrange(len(labels)):
new_labels+=[f'{labels[i]} : {str(sizes[i])}']

fig,ax = plt.subplots()
ax.set_facecolor("Black")
fig.set_facecolor("Black")
plt.rcParams['font.weight'] = 'heavy'


patches, texts=ax.pie(sizes, labels=new_labels,
colors=color_lst,explode=explode,shadow=True,startangle= -
90,textprops={'fontsize': 0})

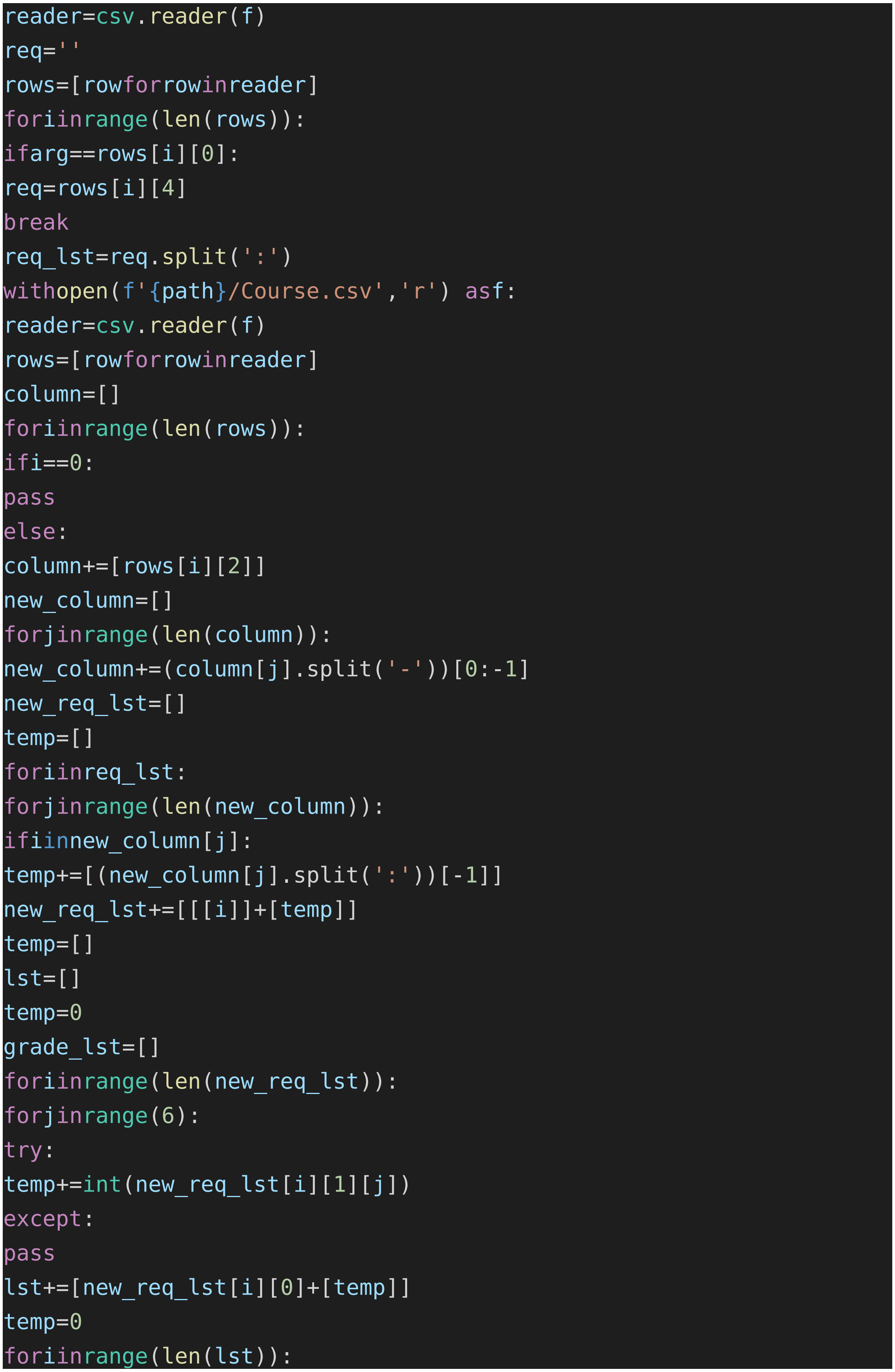
centre_circle = plt.Circle((0,0),0.60,fc='black')
fig = plt.gcf()
fig.gca().add_artist(centre_circle)

legend_properties = {'weight':'heavy'}

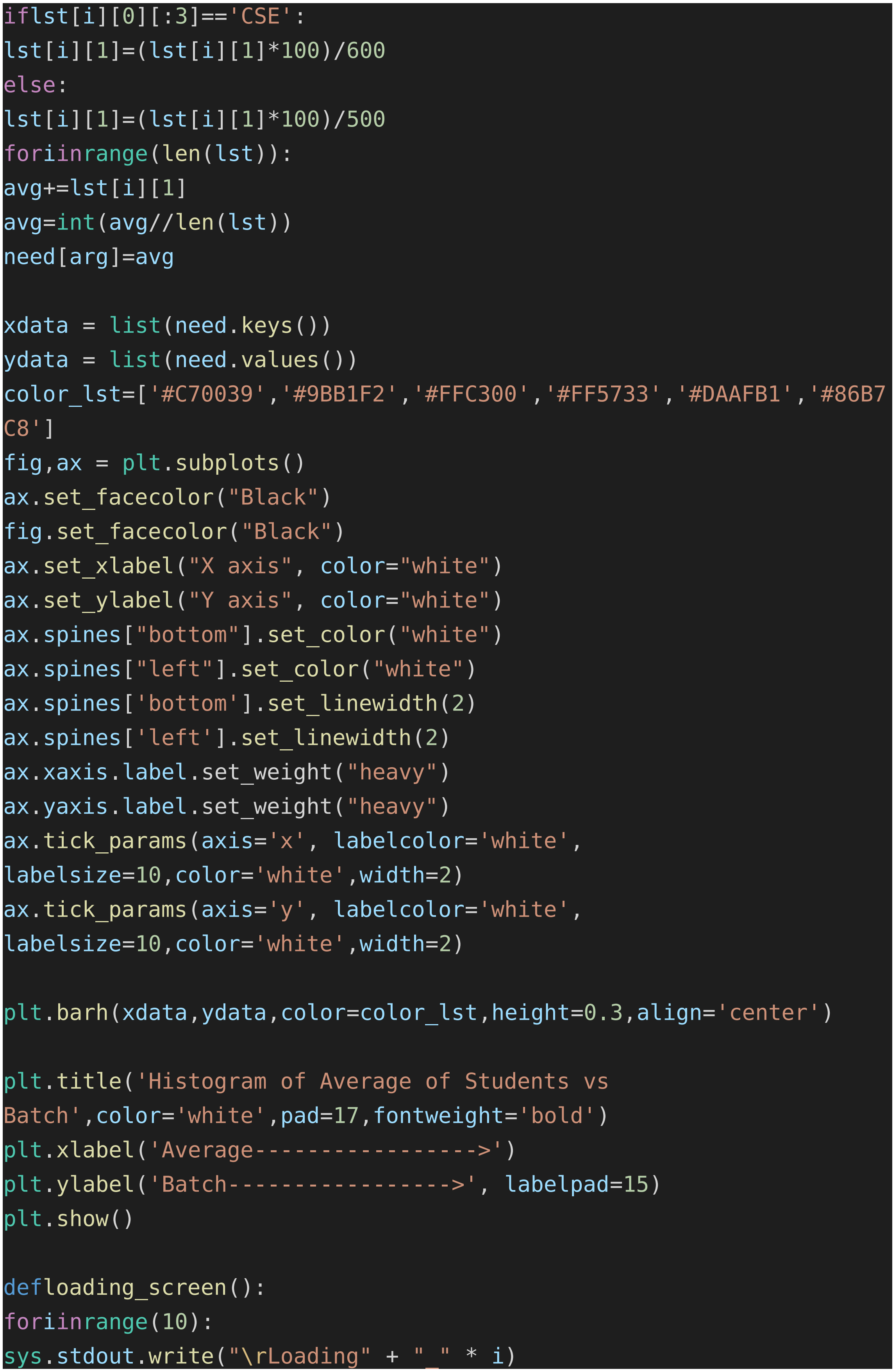
leg=plt.legend(fontsize=10,loc="center",
facecolor="Black",edgecolor="Black",prop=legend_properties)
fortextinleg.get_texts():
text.set_color('white')

plt.title('Overall Grades vs No. of
Students',color='White',weight='heavy')
plt.axis('equal')
plt.show()

defdepartment_graph():
need={}
withopen(f'{path}/Batch.csv','r') asf:
reader=csv.reader(f)
batch=[batch[0] forbatchinreader]
batch=batch[1:]
forarginbatch:
avg=0
withopen(f'{path}/Batch.csv','r') asf:
```



```
reader=csv.reader(f)
req=''
rows=[rowforrowinreader]
foriinrange(len(rows)):
ifarg==rows[i][0]:
req=rows[i][4]
break
req_lst=req.split(':')
withopen(f'{path}/Course.csv','r') asf:
reader=csv.reader(f)
rows=[rowforrowinreader]
column=[]
foriinrange(len(rows)):
ifi==0:
pass
else:
column+=[rows[i][2]]
new_column=[]
forjinrange(len(column)):
new_column+=(column[j].split('-'))[0:-1]
new_req_lst=[]
temp=[]
foriinreq_lst:
forjinrange(len(new_column)):
ifiinnew_column[j]:
temp+=[(new_column[j].split(':'))[-1]]
new_req_lst+=[[[i]]+[temp]]
temp=[]
lst=[]
temp=0
grade_lst=[]
foriinrange(len(new_req_lst)):
forjinrange(6):
try:
temp+=int(new_req_lst[i][1][j])
except:
pass
lst+=[new_req_lst[i][0]+[temp]]
temp=0
foriinrange(len(lst)):
```



```
iflst[i][0][:3]=='CSE':
lst[i][1]=(lst[i][1]*100)/600
else:
lst[i][1]=(lst[i][1]*100)/500
foriinrange(len(lst)):
avg+=lst[i][1]
avg=int(avg//len(lst))
need[arg]=avg

xdata = list(need.keys())
ydata = list(need.values())
color_lst=['#C70039','#9BB1F2','#FFC300','#FF5733','#DAAFB1','#86B7
C8']
fig,ax = plt.subplots()
ax.set_facecolor("Black")
fig.set_facecolor("Black")
ax.set_xlabel("X axis", color="white")
ax.set_ylabel("Y axis", color="white")
ax.spines["bottom"].set_color("white")
ax.spines["left"].set_color("white")
ax.spines['bottom'].set_linewidth(2)
ax.spines['left'].set_linewidth(2)
ax.xaxis.label.set_weight("heavy")
ax.yaxis.label.set_weight("heavy")
ax.tick_params(axis='x', labelcolor='white',
labelsize=10,color='white',width=2)
ax.tick_params(axis='y', labelcolor='white',
labelsize=10,color='white',width=2)

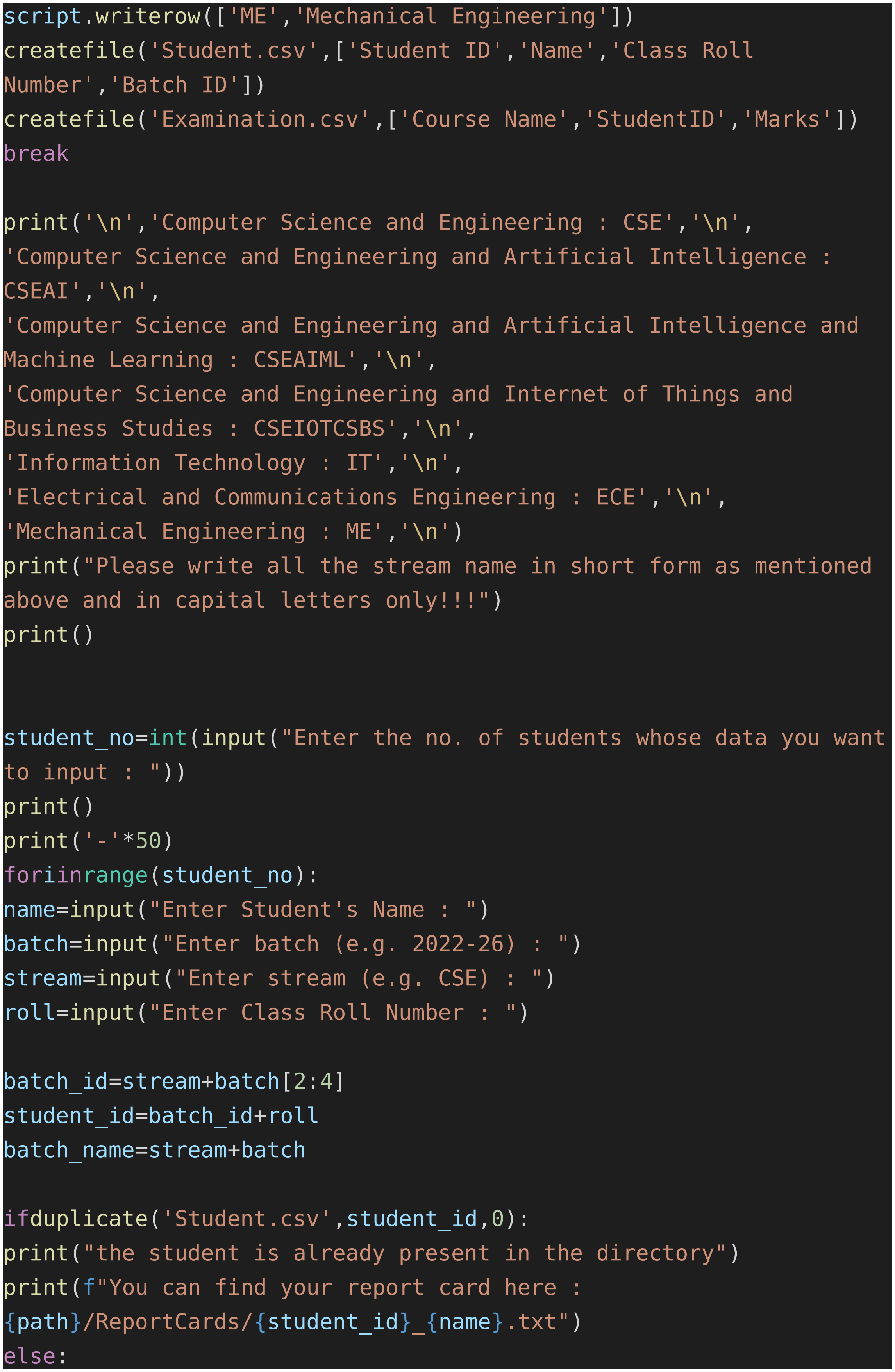
plt.barh(xdata,ydata,color=color_lst,height=0.3,align='center')

plt.title('Histogram of Average of Students vs
Batch',color='white',pad=17,fontweight='bold')
plt.xlabel('Average----------------->')
plt.ylabel('Batch----------------->', labelpad=15)
plt.show()

defloading_screen():
foriinrange(10):
sys.stdout.write("\rLoading" + "_" * i)
sys.stdout.flush()
time.sleep(0.3)
sys.stdout.write("\rLoading completed!")


#Creation of Folder and all the Modules recquired...
try:
os.makedirs(f'{path}/ReportCards')
message=True
except:
message=False

whilemessage:
createfile('Batch.csv',['Batch
ID','BatchName','DepartmentName','List of Courses','List of
Students'])
createfile('Course.csv',['Course ID','CourseName','Marks
Obtained'])
withopen(f'{path}/Course.csv','a',newline='')asf:
script= csv.writer(f)
script.writerow(['C001','Python Programming'])
script.writerow(['C002','Math'])
script.writerow(['C003','Physics'])
script.writerow(['C004','Chemistry'])
script.writerow(['C005','Biology'])
script.writerow(['C006','English'])
createfile('Department.csv',['Department ID','DepartmentName','List
of Batches'])
withopen(f'{path}/Department.csv','a',newline='')asf:
script= csv.writer(f)
script.writerow(['CSE','Computer Science and Engineering'])
script.writerow(['CSEAI','Computer Science and Engineering and
Artificial Intelligence'])
script.writerow(['CSEAIML','Computer Science and Engineering and
Artificial Intelligence and Machine Learning'])
script.writerow(['CSEIOTCSBS','Computer Science and Engineering and
Internet of Things and Business Studies'])
script.writerow(['IT','Information Technology'])
script.writerow(['ECE','Electrical and Communications
Engineering'])
```



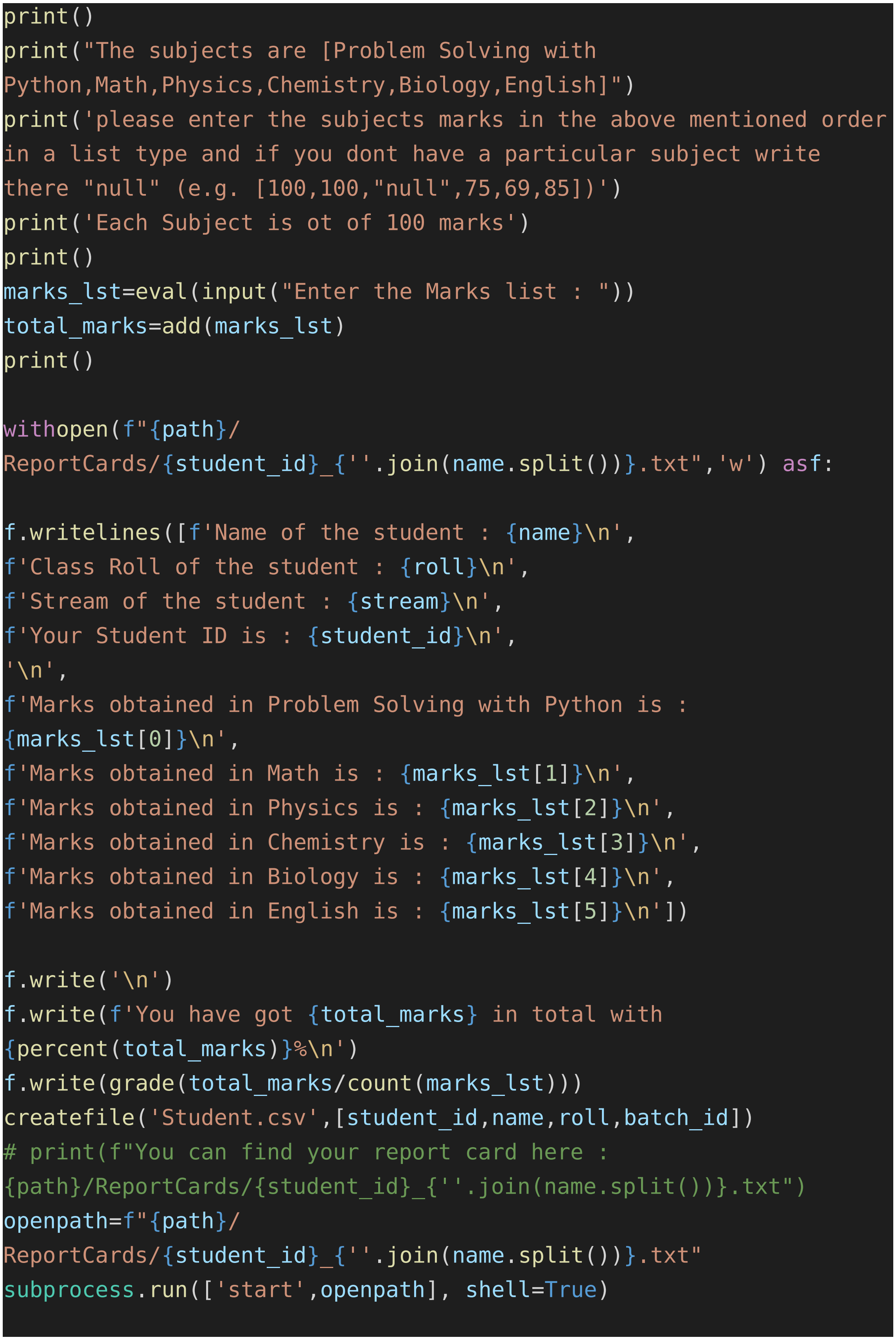
```
script.writerow(['ME','Mechanical Engineering'])
createfile('Student.csv',['Student ID','Name','Class Roll
Number','Batch ID'])
createfile('Examination.csv',['Course Name','StudentID','Marks'])
break

print('\n','Computer Science and Engineering : CSE','\n',
'Computer Science and Engineering and Artificial Intelligence :
CSEAI','\n',
'Computer Science and Engineering and Artificial Intelligence and
Machine Learning : CSEAIML','\n',
'Computer Science and Engineering and Internet of Things and
Business Studies : CSEIOTCSBS','\n',
'Information Technology : IT','\n',
'Electrical and Communications Engineering : ECE','\n',
'Mechanical Engineering : ME','\n')
print("Please write all the stream name in short form as mentioned
above and in capital letters only!!!")
print()


student_no=int(input("Enter the no. of students whose data you want
to input : "))
print()
print('-'*50)
foriinrange(student_no):
name=input("Enter Student's Name : ")
batch=input("Enter batch (e.g. 2022-26) : ")
stream=input("Enter stream (e.g. CSE) : ")
roll=input("Enter Class Roll Number : ")

batch_id=stream+batch[2:4]
student_id=batch_id+roll
batch_name=stream+batch

ifduplicate('Student.csv',student_id,0):
print("the student is already present in the directory")
print(f"You can find your report card here :
{path}/ReportCards/{student_id}_{name}.txt")
else:
```



```
print()
print("The subjects are [Problem Solving with
Python,Math,Physics,Chemistry,Biology,English]")
print('please enter the subjects marks in the above mentioned order
in a list type and if you dont have a particular subject write
there "null" (e.g. [100,100,"null",75,69,85])')
print('Each Subject is ot of 100 marks')
print()
marks_lst=eval(input("Enter the Marks list : "))
total_marks=add(marks_lst)
print()

withopen(f"{path}/
ReportCards/{student_id}_{''.join(name.split())}.txt",'w') asf:

f.writelines([f'Name of the student : {name}\n',
f'Class Roll of the student : {roll}\n',
f'Stream of the student : {stream}\n',
f'Your Student ID is : {student_id}\n',
'\n',
f'Marks obtained in Problem Solving with Python is :
{marks_lst[0]}\n',
f'Marks obtained in Math is : {marks_lst[1]}\n',
f'Marks obtained in Physics is : {marks_lst[2]}\n',
f'Marks obtained in Chemistry is : {marks_lst[3]}\n',
f'Marks obtained in Biology is : {marks_lst[4]}\n',
f'Marks obtained in English is : {marks_lst[5]}\n'])

f.write('\n')
f.write(f'You have got {total_marks} in total with
{percent(total_marks)}%\n')
f.write(grade(total_marks/count(marks_lst)))
createfile('Student.csv',[student_id,name,roll,batch_id])
# print(f"You can find your report card here :
{path}/ReportCards/{student_id}_{''.join(name.split())}.txt")
openpath=f"{path}/
ReportCards/{student_id}_{''.join(name.split())}.txt"
subprocess.run(['start',openpath], shell=True)
```

```
ask=input("Do you want to remove this student's data from database now is the time (Y/N) : ")

ifask.lower()=='n':
ifduplicate('Batch.csv',batch_id,0):
withopen(f'{path}/Batch.csv','r+',newline='') asf:
script=csv.reader(f)
rows=[rowforrowinscript]
foriinrows:
ifbatch_id==i[0]:
rows[rows.index(i)][4]+=f':{student_id}'
f.seek(0)
f.truncate()
writer=csv.writer(f)
writer.writerows(rows)

print("Batch.csv has been updated")
else:
createfile('Batch.csv',
[batch_id,batch_name,stream,choice(stream),student_id])

withopen(f'{path}/Course.csv','r+',newline='') asf:
script=csv.reader(f)
rows=[rowforrowinscript]
foriinrange(len(rows)):
ifi==0:
pass
else:
try:
rows[i][2]+=f'{student_id}:{marks_lst[i-1]}-'
except:
rows[i].append(f'{student_id}:{marks_lst[i-1]}-')
f.seek(0)
f.truncate()
writer=csv.writer(f)
writer.writerows(rows)
else:
remove(student_id)
subprocess.call("TASKKILL /F /IM notepad.exe", shell=True)
os.remove(openpath)
```

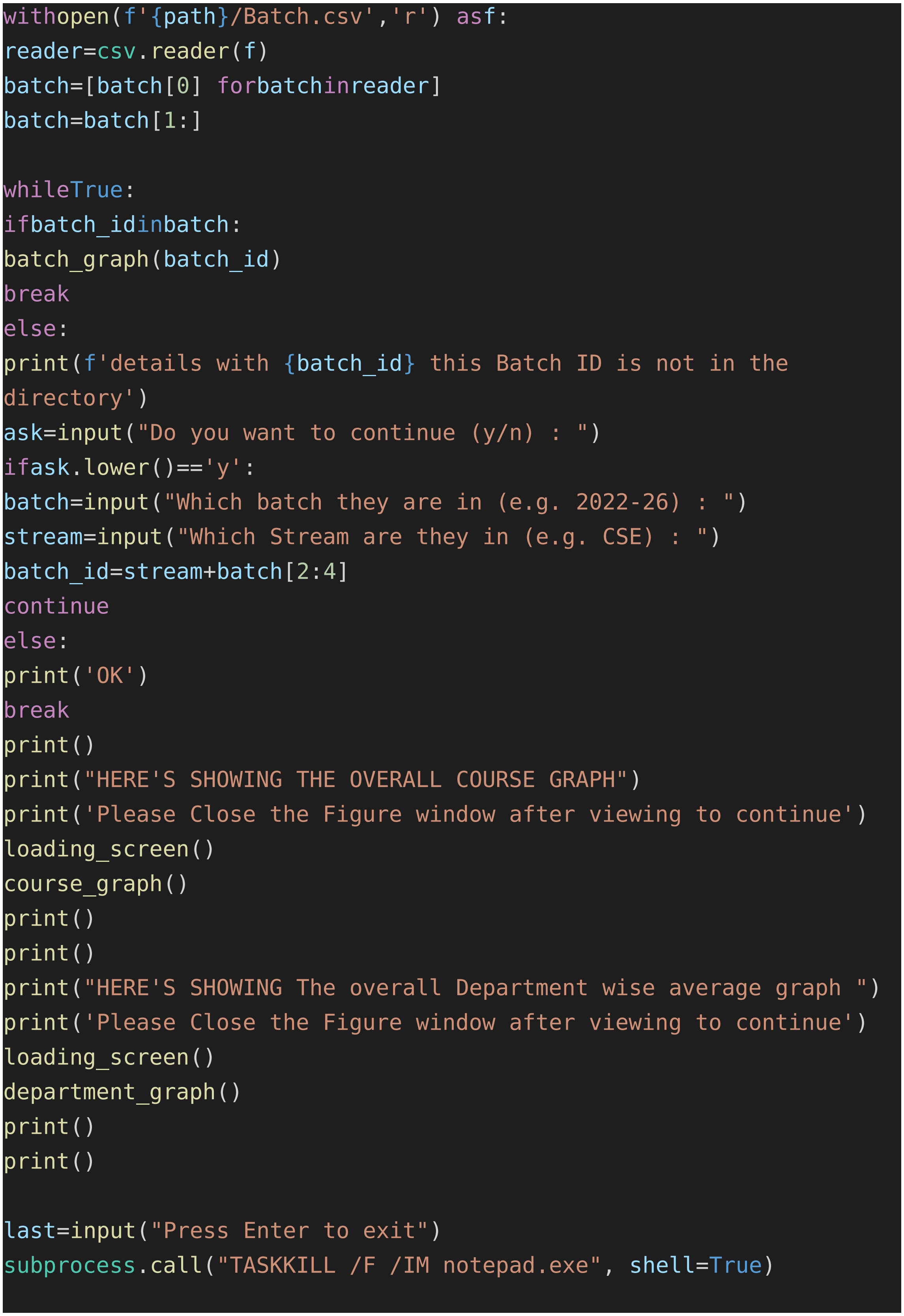
```
print('Your details have been successfully removed from the directory')
print('-'*50)
print()

try:
withopen(f'{path}/Department.csv','r+',newline='') asf:
script=csv.reader(f)
rows=[rowforrowinscript]
lst=get_batch()
foriinlst:
forjinrows:
ifi[0:-2]==j[0]:
try:
ifiinj[2]:
pass
else:
rows[rows.index(j)][2]+=f'{i}:'
except:
rows[rows.index(j)].append(f'{i}:')
break
f.seek(0)
f.truncate()
writer=csv.writer(f)
writer.writerows(rows)

except:
print(student_no,"student's data has been successfully updated in Department.csv")



#Creation of the Graphs...
print()
print("Give the details Below to see the Batchwise percent Graph")
batch=input("Which batch they are in (e.g. 2022-26) : ")
stream=input("Which Stream are they in (e.g. CSE) : ")
print('Please Close the Figure window after viewing to continue')
batch_id=stream+batch[2:4]
```



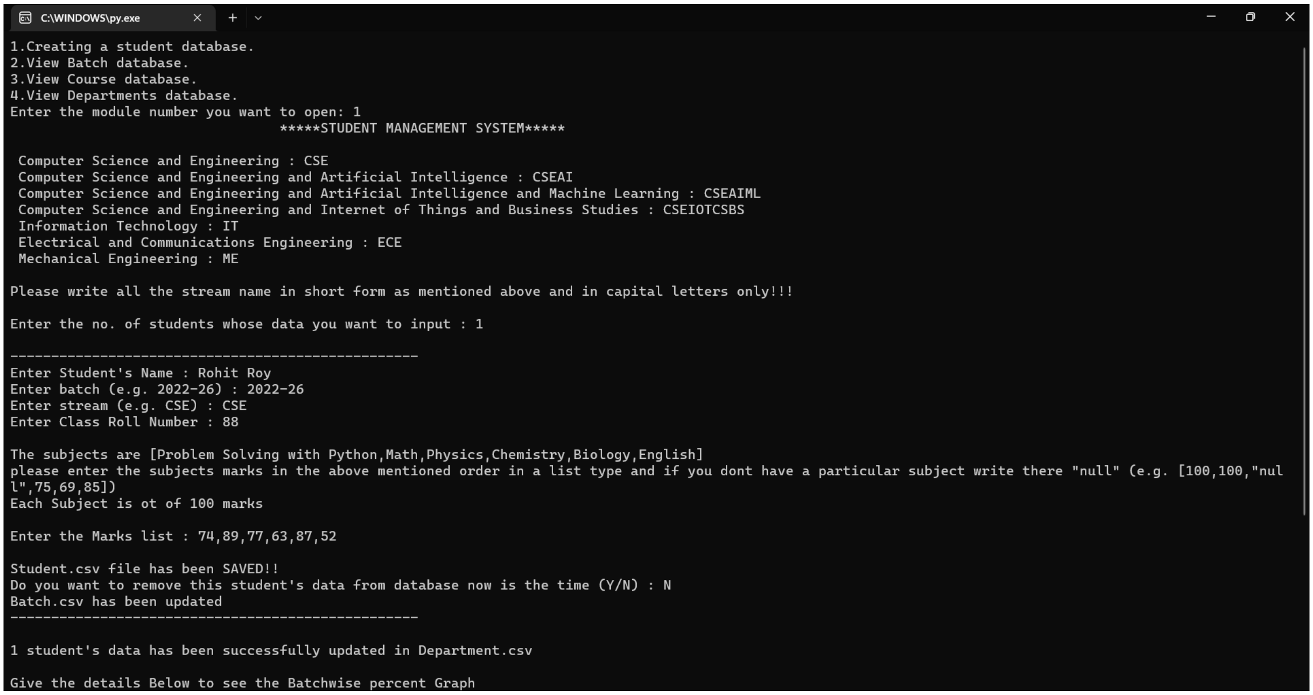
```
withopen(f'{path}/Batch.csv','r') asf:
reader=csv.reader(f)
batch=[batch[0] forbatchinreader]
batch=batch[1:]

whileTrue:
ifbatch_idinbatch:
batch_graph(batch_id)
break
else:
print(f'details with {batch_id} this Batch ID is not in the
directory')
ask=input("Do you want to continue (y/n) : ")
ifask.lower()=='y':
batch=input("Which batch they are in (e.g. 2022-26) : ")
stream=input("Which Stream are they in (e.g. CSE) : ")
batch_id=stream+batch[2:4]
continue
else:
print('OK')
break
print()
print("HERE'S SHOWING THE OVERALL COURSE GRAPH")
print('Please Close the Figure window after viewing to continue')
loading_screen()
course_graph()
print()
print()
print("HERE'S SHOWING The overall Department wise average graph ")
print('Please Close the Figure window after viewing to continue')
loading_screen()
department_graph()
print()
print()

last=input("Press Enter to exit")
subprocess.call("TASKKILL /F /IM notepad.exe", shell=True)
```

5 Outputs

PRIMARY INTERFACE



```
1.Creating a student database.
2.View Batch database.
3.View Course database.
4.View Departments database.
Enter the module number you want to open: 1
                                 *****STUDENT MANAGEMENT SYSTEM*****

 Computer Science and Engineering : CSE
 Computer Science and Engineering and Artificial Intelligence : CSEAI
 Computer Science and Engineering and Artificial Intelligence and Machine Learning : CSEAIML
 Computer Science and Engineering and Internet of Things and Business Studies : CSEIOTCSBS
 Information Technology : IT
 Electrical and Communications Engineering : ECE
 Mechanical Engineering : ME

Please write all the stream name in short form as mentioned above and in capital letters only!!!

Enter the no. of students whose data you want to input : 1

--------------------------------------------------
Enter Student's Name : Rohit Roy
Enter batch (e.g. 2022-26) : 2022-26
Enter stream (e.g. CSE) : CSE
Enter Class Roll Number : 88

The subjects are [Problem Solving with Python,Math,Physics,Chemistry,Biology,English]
please enter the subjects marks in the above mentioned order in a list type and if you dont have a particular subject write there "null" (e.g. [100,100,"nul
l",75,69,85])
Each Subject is ot of 100 marks

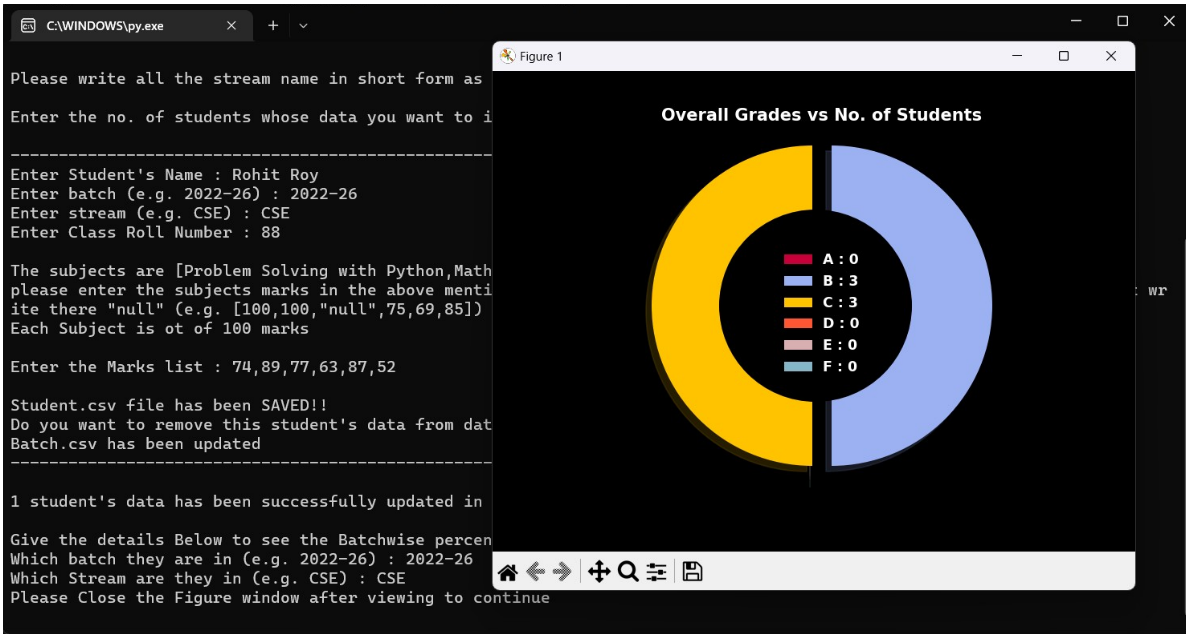
Enter the Marks list : 74,89,77,63,87,52

Student.csv file has been SAVED!!
Do you want to remove this student's data from database now is the time (Y/N) : N
Batch.csv has been updated
--------------------------------------------------

1 student's data has been successfully updated in Department.csv

Give the details Below to see the Batchwise percent Graph
```

Pie-chart of grades of all students in Batch



```
Please write all the stream name in short form as

Enter the no. of students whose data you want to i

--------------------------------------------------
Enter Student's Name : Rohit Roy
Enter batch (e.g. 2022-26) : 2022-26
Enter stream (e.g. CSE) : CSE
Enter Class Roll Number : 88

The subjects are [Problem Solving with Python,Math
please enter the subjects marks in the above menti                                    wr
ite there "null" (e.g. [100,100,"null",75,69,85])
Each Subject is ot of 100 marks

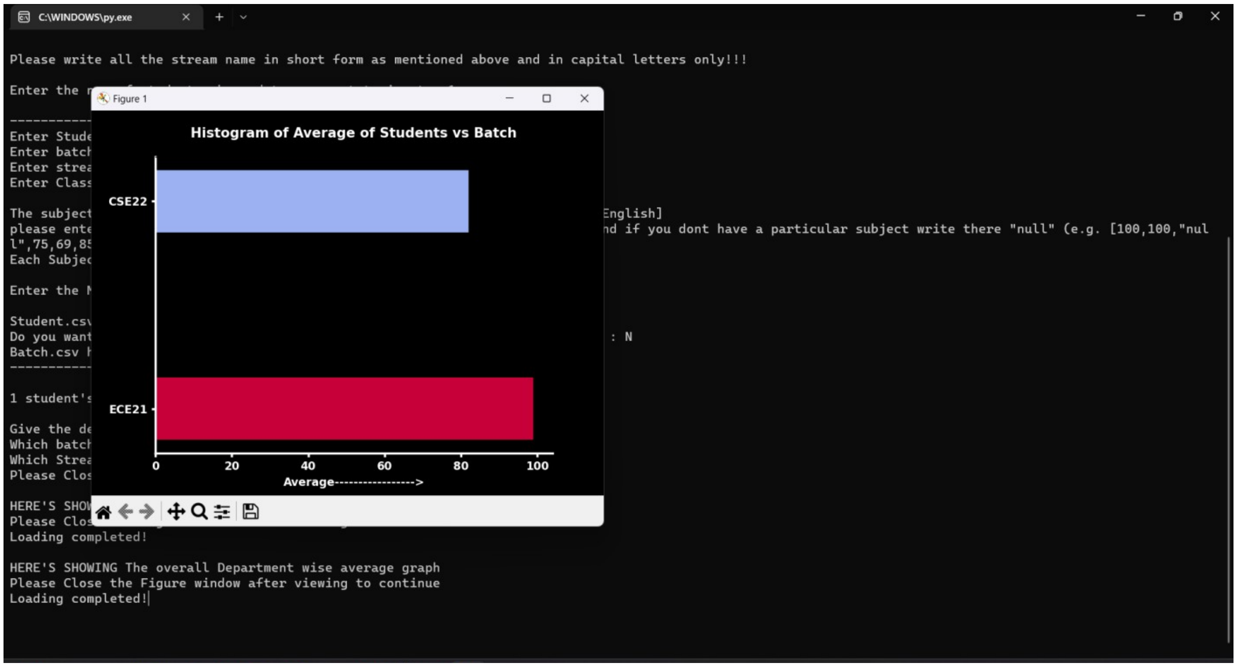
Enter the Marks list : 74,89,77,63,87,52

Student.csv file has been SAVED!!
Do you want to remove this student's data from dat
Batch.csv has been updated
--------------------------------------------------

1 student's data has been successfully updated in

Give the details Below to see the Batchwise percen
Which batch they are in (e.g. 2022-26) : 2022-26
Which Stream are they in (e.g. CSE) : CSE
Please Close the Figure window after viewing to continue
```

Histogram of average of students vs batch



```
Please write all the stream name in short form as mentioned above and in capital letters only!!!

Enter the r

-----------
Enter Stude
Enter batch
Enter strea
Enter Class

The subject                                                English]
please ente                                                nd if you dont have a particular subject write there "null" (e.g. [100,100,"nul
l",75,69,85
Each Subjec

Enter the M

Student.csv
Do you want                                                : N
Batch.csv h
-----------

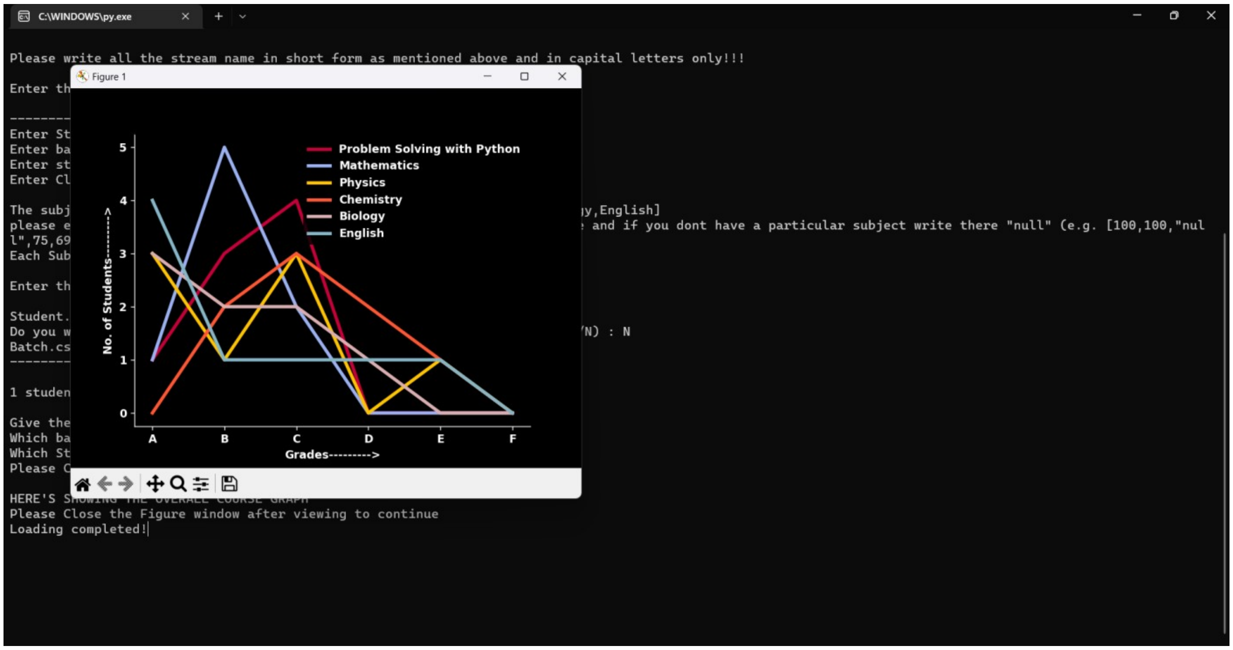
1 student's

Give the de
Which batch
Which Strea
Please Clos

HERE'S SHOW
Please Clos
Loading completed!

HERE'S SHOWING The overall Department wise average graph
Please Close the Figure window after viewing to continue
Loading completed!
```

Line plot of no. of students in a department vs. their grades



```
Please write all the stream name in short form as mentioned above and in capital letters only!!!

Enter th

--------
Enter St
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The subj                                                  gy,English]
please e                                                  e and if you dont have a particular subject write there "null" (e.g. [100,100,"nul
l",75,69
Each Sub

Enter th

Student.
Do you w                                                  /N) : N
Batch.cs
--------

1 studen

Give the
Which ba
Which St
Please C

HERE'S SHOWING THE OVERALL COURSE GRAPH
Please Close the Figure window after viewing to continue
Loading completed!
```