Untitled5.ipynb ☆

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```
# 1.  Read Student Info File
from google.colab import drive
drive.mount('/content/drive')

fp=open("drive/My Drive/EDS/stud_info.csv")

stud_data=fp.readlines()
stud_data

rollno=[]
name=[]
gender=[]
dob=[]

for record in stud_data[1:]:
  record.replace("\n"," ")
  temp=record.split(',')
  rollno.append(temp[0])
  name.append(temp[1])
  gender.append(temp[2])
  dob.append(temp[3])

  rollno
  gender
  dob
```

```
  # 2. Read Student Placement File

  fp=open("drive/My Drive/eds/stud_placement.csv")

stud_data=fp.readlines()
stud_data

rollno=[]
Company=[]
JobRole=[]
Package=[]

for record in stud_data[1:]:
  record.replace("n","")
  temp=record.split(',')
  rollno.append(temp[0])
  JobRole.append(temp[2])
  Company.append(temp[1])
  Package.append(temp[3])

  JobRole
  Company
  Package
```

```
# 3. Read Student Marks

fp=open("drive/My Drive/eds/student_marks .csv")


stud_data=fp.readlines()
stud_data


Maths=[]
Physics=[]
Chemistry=[]
Total=[]
Percentage=[]

for row in stud_data[1:]:
    Maths.append(row[1])
    Physics.append(row[2])
    Chemistry.append(row[3])
    Total.append(row[4])
    Percentage.append(row[5])

print(Maths)
print(Physics)
print(Chemistry)
print(Total)
print(Percentage)

studentdata=[]
```

```
studentdata=[]
studentdata.append(rollno)
studentdata.append(name)
studentdata.append(gender)
studentdata.append(dob)
studentdata.append(Maths)
studentdata.append(Physics)
studentdata.append(Chemistry)
studentdata.append(Total)
studentdata.append(Percentage)
studentdata.append(Company)
studentdata.append(JobRole)
studentdata.append(Package)

studentdata
```

```python
# 4. Writing Data to New File

fw=open("StudentDetails.csv","w")

data_to_write=[]
for i in range(len(studentdata[0])):# 10 rows
    row=list()
    for j in range(len(studentdata)):#12 col
        data=studentdata[j][i]
        row.append(data)
    row.append('\n')
    data_to_write.append(",".join(row))

    data_to_write

fw.writelines(data_to_write)

fw.close()
```

```
    # 5. Statistical analysis (Average, Max, Min, Count, Sum, Percentage)

    #1. Average package
package=studentdata[11:][0]
total_student=len(studentdata[11:][0])

# Converting String value to float
Num_package=[float(i) for i in package]
print('Average Package= ',sum(Num_package)/total_student)

# 2.Min Package
print('Minimum Package= ',min(Num_package))

# 3.Max Package
print('Minimum Package= ',max(Num_package))



# 4.Sum
print("Math Marks=",studentdata[4])
print("Physics Marks=",studentdata[5])
print("Chemistry Marks=",studentdata[6])
# Converting String value to int
Math_Marks=[int(10) for i in studentdata[4]]
Physics_Marks=[int(10) for i in studentdata[5]]
Chemistry_Marks=[int(10) for i in studentdata[6]]
```

```
#Total marks=
Totalmarks=[]
for i in range(len(studentdata[4])):
    Totalmarks.append(Math_Marks[i]+Physics_Marks[i]+Chemistry_Marks[i])
print("Total Marks=",Totalmarks)

# 5. Percentage
percentage=[round(marks/3,2) for marks in Totalmarks]
print("Percentage=",percentage)

# Count
print("No of Student=",len(studentdata[0]))
print("No of Attribute=",len(studentdata))
```

```
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
['Roll No,name,Gender,DOB\n',
 '1,John,Male,05-04-1988\n',
 '2,Mayur,Male,04-05-1987\n',
 '3,Mangesh,Male,25-05-1989\n',
 '4,Jessica,Female,12-08-1990\n',
 '5,Jennifer,Female,02-09-1989\n',
 '6,Ramesh,Male,03-09-1989\n',
 '7,Suresh,Male,04-09-1990\n',
 '8,Ganesh,Male,05-10-1989\n',
 '9,Komal,Female,06-09-1989\n',
 '10,Mayuri,Female,07-02-1988\n']
```

```
['1', '2', '3', '4', '5', '6', '7', '8', '9', '10']
['John', 'Mayur', 'Mangesh', 'Jessica', 'Jennifer', 'Ramesh', 'Suresh', 'Ganesh', 'Komal', 'Mayuri', '55', '75', '25', '78', '58', '88', '56', '54', '46', '89']
['Male', 'Male', 'Male', 'Female', 'Female', 'Male', 'Male', 'Male', 'Female', 'Female', '45', '55', '54', '55', '96', '78', '89', '55', '66', '87']
['05-04-1988\n', '04-05-1987\n', '25-05-1989\n', '12-08-1990\n', '02-09-1989\n', '03-09-1989\n', '04-09-1990\n', '05-10-1989\n', '06-09-1989\n', '07-02-1988\n', '56', '55', '89', '86',
```

```
['Roll No,Company,JobRole,Package\n',
 '1,Infosys,Data Analyst,10.2\n',
 '2,TCS,Java Developer,9.6\n',
 '3,TCS,Data Scientist,12.60\n',
 '4,Infosys,Data Analyst,10.2\n',
 '5,Oracle,Java Developer,9.6\n',
 '6,Oracle,Data Scientist,12.60\n',
 '7,TCS,Tester,6.50\n',
 '8,Infosys,Tester,6.51\n',
 '9,Mindtree,Database Admin,8.30\n',
 '10,Mindtree,Database Admin,8.31\n']
```

```
['Data Analyst', 'Java Developer', 'Data Scientist', 'Data Analyst', 'Java Developer', 'Data Scientist', 'Tester', 'Tester', 'Database Admin', 'Database Admin']
['Infosys', 'TCS', 'TCS', 'Infosys', 'Oracle', 'Oracle', 'TCS', 'Infosys', 'Mindtree', 'Mindtree']
['10.2\n', '9.6\n', '12.60\n', '10.2\n', '9.6\n', '12.60\n', '6.50\n', '6.51\n', '8.30\n', '8.31\n']
```

```
['55', '75', '25', '78', '58', '88', '56', '54', '46', '89']
['45', '55', '54', '55', '96', '78', '89', '55', '66', '87']
['56', '55', '89', '86', '78', '58', '69', '88', '65', '54']
['156', '185', '168', '219', '232', '224', '214', '197', '177', '230']
['52.00', '61.67', '56.00', '73.00', '77.33', '74.67', '71.33', '65.67', '59.00', '76.67']
```

```
[['1', '2', '3', '4', '5', '6', '7', '8', '9', '10'],
 ['John',
  'Mayur',
  'Mangesh',
  'Jessica',
  'Jennifer',
  'Ramesh',
  'Suresh',
  'Ganesh',
  'Komal',
  'Mayuri'],
 ['Male',
  'Male',
  'Male',
  'Female',
  'Female',
  'Male',
  'Male',
  'Male',
  'Female',
  'Female'],
 ['05-04-1988',
  '04-05-1987',
  '25-05-1989',
  '12-08-1990',
  '02-09-1989',
  '03-09-1989',
  '04-09-1990',
  '05-10-1989',
  '06-09-1989',
```

```
['1,John,Male,05-04-1988,55,45,56,156,52.00,Infosys,Data Analyst,10.2,\n',
 '2,Mayur,Male,04-05-1987,75,55,55,185,61.67,TCS,Java Developer,9.6,\n',
 '3,Mangesh,Male,25-05-1989,25,54,89,168,56.00,TCS,Data Scientist,12.60,\n',
 '4,Jessica,Female,12-08-1990,78,55,86,219,73.00,Infosys,Data Analyst,10.2,\n',
 '5,Jennifer,Female,02-09-1989,58,96,78,232,77.33,Oracle,Java Developer,9.6,\n',
 '6,Ramesh,Male,03-09-1989,88,78,58,224,74.67,Oracle,Data Scientist,12.60,\n',
 '7,Suresh,Male,04-09-1990,56,89,69,214,71.33,TCS,Tester,6.50,\n',
 '8,Ganesh,Male,05-10-1989,54,55,88,197,65.67,Infosys,Tester,6.51,\n',
 '9,Komal,Female,06-09-1989,46,66,65,177,59.00,Mindtree,Database Admin,8.30,\n',
 '10,Mayuri,Female,07-02-1988,89,87,54,230,76.67,Mindtree,Database Admin,8.31,\n']
```

```
Math Marks= ['55', '75', '25', '78', '58', '88', '56', '54', '46', '89']
Phyics Marks= ['45', '55', '54', '55', '96', '78', '89', '55', '66', '87']
Chemistry Marks= ['56', '55', '89', '86', '78', '58', '69', '88', '65', '54']
Sum of Marks= [156, 185, 168, 219, 232, 224, 214, 197, 177, 230]
Average Marks= [52.0, 61.67, 56.0, 73.0, 77.33, 74.67, 71.33, 65.67, 59.0, 76.67, 156, 185, 168, 219, 232, 224, 214, 197, 177, 230]
```

Maximum Marks= 77.33

Maximum Marks= 52.0

No of Student= 10
No of Attribute= 12