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**Batch-H1**

# EDS Assignment 1

1) **Take/Prepare any text files for any real-life application. For Ex. "Stud.txt", "Placement.csv" and "Result. csv" files for result Analysis. Combine into "StudentDetails.csv". Perform all statistical analysis (Average, Max, Min, Count, Sum, Percentage) on it**

```python
#file merging and creation of csv file
file1=open("/content/stud_info2.csv", "r")
file2=open("/content/student marks1.csv","r")
file3=open("/content/stud_placement3.csv","r")


import csv
new=list(csv.reader(file1,delimiter=","))
new2=list(csv.reader(file2,delimiter=","))
new3=list(csv.reader(file3,delimiter=","))

# print(new)
#print(new2)
#print(new3)
RollNO=[]
name=[]
gender=[]
DOB=[]

for i in range(len(new)):
  RollNO.append(new[i][0])
  name.append(new[i][1])
  gender.append(new[i][2])
  DOB.append(new[i][3])
# print(RollNO)
#  print(name)
# print(gender)
# print(DOB)


# # RollnO=[]
Maths=[]
Physics=[]
chemistry=[]
total=[]
```

```python
percentage=[]

# print(new2)
for i in range(len(new2)):
  # RollnO.append(new2[i][0])
  Maths.append(new2[i][1])
  Physics.append(new2[i][2])
  chemistry.append(new2[i][3])
  total.append(new2[i][4])
  percentage.append(new2[i][5])


# RollnO=[]
# print(Maths)
# print(Physics)
# print(chemistry)
# print(total)
# print(percentage)

Company=[]
JobRole=[]
Package=[]
# print(new3)
for i in range(len(new3)):
  # RollNO.append(new3[i][0])
  Company.append(new3[i][1])
  JobRole.append(new3[i][2])
  Package.append(new3[i][3])

# print(Company)
# print(JobRole)
# print(Package)

studetails=[]
studetails.append(RollNO)
studetails.append(name)
studetails.append(gender)
studetails.append(DOB)
studetails.append(Maths)
studetails.append(Physics)
studetails.append(chemistry)
studetails.append(total)
studetails.append(percentage)
studetails.append(Company)
studetails.append(JobRole)
studetails.append(Package)
print(studetails)
```

```python
last_file=open("/content/studetails.csv",'w')
data1=csv.writer(last_file)
for i in range (len(new)):
    data_last=new[i]+new2[i]+new3[i]
    data1.writerow(data_last)




file1.close()
file2.close()
file3.close()
last_file.close()

#file merging and creation of csv file done
```
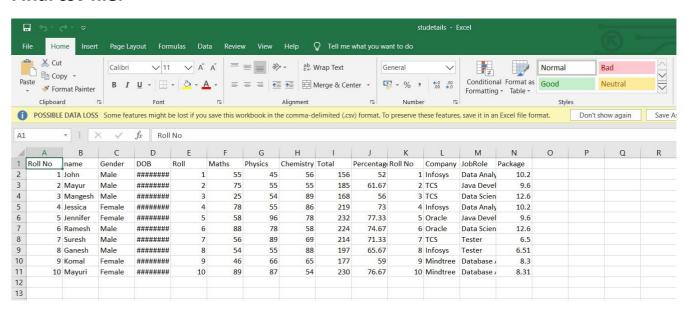
**OUTPUT:-**

```
[['Roll No', '1', '2', '3', '4', '5', '6', '7', '8', '9', '10'], ['name',
'John', 'Mayur', 'Mangesh', 'Jessica', 'Jennifer', 'Ramesh', 'Suresh',
'Ganesh', 'Komal', 'Mayuri'], ['Gender', 'Male', 'Male', 'Male',
'Female', 'Female', 'Male', 'Male', 'Male', 'Female', 'Female'], ['DOB',
'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', '07-02-1988'],
['Maths', '55', '75', '25', '78', '58', '88', '56', '54', '46', '89'],
['Physics', '45', '55', '54', '55', '96', '78', '89', '55', '66', '87'],
['Chemistry', '56', '55', '89', '86', '78', '58', '69', '88', '65', '54'],
['Total', '156', '185', '168', '219', '232', '224', '214', '197', '177',
'230'], ['Percentage', '52', '61.67', '56', '73', '77.33', '74.67',
'71.33', '65.67', '59', '76.67'], ['Company', 'Infosys', 'TCS', 'TCS',
'Infosys', 'Oracle', 'Oracle', 'TCS', 'Infosys', 'Mindtree', 'Mindtree'],
['JobRole', 'Data Analyst', 'Java Developer', 'Data Scientist', 'Data
Analyst', 'Java Developer', 'Data Scientist', 'Tester', 'Tester',
'Database Admin', 'Database Admin'], ['Package', '10.2', '9.6', '12.60',
'10.2', '9.6', '12.60', '6.50', '6.51', '8.30', '8.31']]
```

**Final csv file:-**



| Roll No | name | Gender | DOB | Roll | Maths | Physics | Chemistry | Total | Percentage | Roll No | Company | JobRole | Package |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | John | Male | ######## | 1 | 55 | 45 | 56 | 156 | 52 | 1 | Infosys | Data Analy | 10.2 |
| 2 | Mayur | Male | ######## | 2 | 75 | 55 | 55 | 185 | 61.67 | 2 | TCS | Java Devel | 9.6 |
| 3 | Mangesh | Male | ######## | 3 | 25 | 54 | 89 | 168 | 56 | 3 | TCS | Data Scien | 12.6 |
| 4 | Jessica | Female | ######## | 4 | 78 | 55 | 86 | 219 | 73 | 4 | Infosys | Data Analy | 10.2 |
| 5 | Jennifer | Female | ######## | 5 | 58 | 96 | 78 | 232 | 77.33 | 5 | Oracle | Java Devel | 9.6 |
| 6 | Ramesh | Male | ######## | 6 | 88 | 78 | 58 | 224 | 74.67 | 6 | Oracle | Data Scien | 12.6 |
| 7 | Suresh | Male | ######## | 7 | 56 | 89 | 69 | 214 | 71.33 | 7 | TCS | Tester | 6.5 |
| 8 | Ganesh | Male | ######## | 8 | 54 | 55 | 88 | 197 | 65.67 | 8 | Infosys | Tester | 6.51 |
| 9 | Komal | Female | ######## | 9 | 46 | 66 | 65 | 177 | 59 | 9 | Mindtree | Database | 8.3 |
| 10 | Mayuri | Female | ######## | 10 | 89 | 87 | 54 | 230 | 76.67 | 10 | Mindtree | Database | 8.31 |

```python
#Performing all statistical analysis (Average, Max, Min, Count, Sum,
Percentage)


#sum
Mathsmarks = [55,75,25,78,58,88,56,54,46,89]
total = 0

for i in range(0, len(Mathsmarks)):
    total = total + Mathsmarks[i]

print("Sum of all marks: ", total)

#avg

avg= total/len(Maths_marks)
print("average marks scored in maths:",avg)



#max marks
print("Maximum Marks",max(Maths_marks))
```

```
#min marks
print("Minimum Marks=",min(Maths_marks))


#percentage
percent= total/1000*100
print ("percentage passing in maths:",percent)




#use of count
company=['Infosys', 'TCS', 'TCS', 'Infosys', 'Oracle', 'Oracle', 'TCS',
'Infosys', 'Mindtree', 'Mindtree']
print("no. of stu placed in TCS=")
print(company.count('TCS'))

print("no. of stu placed in infosys=")
print(company.count('Infosys'))

print("no. of stu placed in Mindtree=")
print(company.count('Mindtree'))

print("no. of stu placed in oracle=")
print(company.count('Oracle'))
```

**OUTPUT:-**

```
Sum of all marks:  624
average marks scored in maths: 62.4
Maximum Marks 89
Minimum Marks= 25
percentage passing in maths: 62.4
no. of stu placed in TCS=
3
no. of stu placed in infosys=
3
no. of stu placed in Mindtree=
2
no. of stu placed in oracle=
2
```