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**Assignment 1A**

```
#Find statistical analysis of Employee Records

f = open("/content/sample_data/emp(10).csv","r")

contents=f.read()

lines=contents.split("\n")

eld=[]; nm=[];design=[];sal=[];

for l in lines:
  words= l.split(",")
  print(words)
  eld.append(int(words[0]))
  nm.append(words[1])
  design.append(words[2])
  sal.append(int(words[3]))

print("Employee IDs:",eld)
print("Employee Names:",nm)
print("Employee DEsignations:",design)
print("Employee salary:",sal)
```

```
['1', 'Sanvi', 'Manager', '100000']
['2', 'Mrunmayee', 'Sr.Manager', '950000']
['3', 'Gouri', 'Sr.Manager', '95000']
['4', 'Gouri', 'Sr.Manager', '95000']
['5', 'Mahesh', 'Supervisor', '500000']
Employee IDs: [1, 2, 3, 4, 5]
Employee Names: ['Sanvi', 'Mrunmayee', 'Gouri', 'Gouri', 'Mahesh']
Employee DEsignations: ['Manager', 'Sr.Manager', 'Sr.Manager', 'Sr.Manager', 'Supervisor']
Employee salary: [100000, 950000, 95000, 95000, 500000]
```

```
#Max Salary
print("Maximum salary:",max(sal))

#Min Salary
print("Minimum salary:",min(sal))

#Average salary
print("Average salary:",sum(sal)/len(sal))
```

```
#Total Salary
print("Total Salary:",sum(sal))

#Employee whose salary is maximum
print("Employee Name whose salary is maximum",nm[sal.index(max(sal))])

#Employee whose Designation is Manager
print("Employee Name whose designation is manager",end="")
for i in range(len(design)):
  if design[i] == "Manager" or design[i]=="manager":
    print(nm[i],end=" ")

#Employee whose salary is 95000
print("Employee Name whose salary is 95000:",nm[sal.index(950000)])

#Employee whose salary is minimum
print("\nEmployee Name whose salary is
minimum:",nm[sal.index(min(sal))])

#Employee whose Designation is Sr.Manager
print("Employee Name whose designation is Sr Manager",end=" ")
for i in range(len(design)):
  if design[i]=="Sr.Manager" or design[i] == "Sr.manager":
    print(nm[i], end =" ")

f= 0
#Employee whose salary is 45000
for i in range(len(sal)):
  if sal[i] == 45000:
    print("\nEmployee Name whose salary is 45000 :",nm[i])
    f=1

if(f==0):
  print("\nNo any Employee present whose salary is 45000:",nm[i])
```

```
Maximum salary: 950000
Minimum salary: 95000
Average salary: 348000.0
Total Salary: 1740000
Employee Name whose salary is maximum Mrunmayee
Employee Name whose designation is managerSanvi Employee Name whose salary is 95000: Mrunmayee

Employee Name whose salary is minimum: Gouri
Employee Name whose designation is Sr Manager Mrunmayee Gouri Gouri
No any Employee present whose salary is 45000: Mahesh
```

**Assignment 1B :**

**Part 1**

```
#Code1
f1=open("/content/sample_data/student.csv","r")
```

```
f2=open("/content/sample_data/placement.csv","r")

f3=open("/content/sample_data/stud_placement.csv","w")
contents1=f1.read()
contents2=f2.read()
print(contents1)
print(contents2)
nm=[]
package=[]
lines1=contents1.split("\n")
lines2=contents2.split("\n")
lines1.pop()
lines2.pop()
for l1 in lines1:
  words1=l1.split(",")
  for l2 in lines2:
    words2=l2.split(",")
    if(words1[0] == words2[0]):
      l1 = l1 + "," + words2[1] + "," + words2[2] + "\n"
      f3.write(l1)

      nm.append(words1[1])
      package.append(int(words2[2]))
      print(l1)
f1.close()
f2.close()
f3.close()
```

```
201,Rohit
202,Aryan
203,Aman
204,Shreeyash
205,Sadhu

201,Cisco,700000
202,Google,2400000
203,TCS,800000
204,Bajaj,100000
205,Microsoft,2000000
201,Rohit,Cisco,700000

202,Aryan,Google,2400000

203,Aman,TCS,800000

204,Shreeyash,Bajaj,100000
```

```
#Code2
f=open("/content/sample_data/stud_placement.csv","r")
contents=f.read()
lines=contents.split("\n")
lines.pop()
sid=[]; nm=[]; company=[]; package=[];
for l in lines:
  words=l.split(",")
```

```
  print(words)
  sid.append(int(words[0]))
  nm.append(words[1])
  company.append(words[2])
  package.append(int(words[3]))

print("\nStudent IDs",sid)
print("Student Names",nm)
print("Student Company",company)
print("Student Package",package)

#Max Package
print("\nMaximum Package :",max(package))
#Min Package
print("Minimum Package :",min(package))
#Average Package
print("Average Package :",sum(package)/len(package))
#Total Package
print("Total Package :",sum(package))
#Student whose package is max
print("\nStudent name whose package is maximum :
",nm[package.index(max(package))])
#Student whose company is Google
print("Student name whose company is Google : ",end=",")
for i in range(len(company)):
  if company[i]=="Google":
     print(nm[i],end=" ")

#Student whose package is 2400000
print("\nStudent name whose package is 2400000 :
",nm[package.index(2400000)])
#Student whose package is min
print("Student name whose package is minimum :
",nm[package.index(min(package))])
#Student whose company is Microsoft
print("Student name whose company is Microsoft : ",end=",")
for i in range(len(company)):
  if company[i]=="Microsoft":
    print(nm[i],end=" ")
f=0
#Student whose package is 2000000
for i in range(len(package)):
  if package[i]==2000000:
    print("\nStudent name whose package is 2000000 : ",nm[i])
  f=1
if(f==0):
  print("No any Student present whose package is 2000000")
```

```
['201', 'Rohit', 'Cisco', '700000']
['202', 'Aryan', 'Google', '2400000']
['203', 'Aman', 'TCS', '800000']
['204', 'Shreeyash', 'Bajaj', '100000']

Student IDs [201, 202, 203, 204]
Student Names ['Rohit', 'Aryan', 'Aman', 'Shreeyash']
Student Company ['Cisco', 'Google', 'TCS', 'Bajaj']
Student Package [700000, 2400000, 800000, 100000]

Maximum Package : 2400000
Minimum Package : 100000
Average Package : 1000000.0
Total Package : 4000000

Student name whose package is maximum :  Aryan
Student name whose company is Google : ,Aryan
Student name whose package is 2400000 :  Aryan
Student name whose package is minimum :  Shreeyash
Student name whose company is Microsoft : ,
```

**Part 2:**

```
import csv
def top_5_emp(d3):
d3.sort(key = lambda x : int(x[5]), reverse = True)
print("Sorted Data : ",d3)

print("\n\nTop 1 Employee",d3[0][1])
print("\n\nTop 2 Employee",d3[1][1])
print("\n\nTop 3 Employee",d3[2][1])
print("\n\nTop 4 Employee",d3[3][1])
print("\n\nTop 5 Employee",d3[4][1])

f1 = open ("/content/drive/MyDrive/Colab Notebooks/EmployeeA.txt","r")

f2 = open ("/content/drive/MyDrive/Colab Notebooks/EmployeeB.txt","r")

f3 = open ("/content/drive/MyDrive/Colab Notebooks/File
Merged.csv","w")
d1 = list(csv.reader(f1,delimiter=','))
d2 = list(csv.reader(f2,delimiter=','))

print("\n\n File1 Contents : ",d1)
print("\n\n File2 Contents : ",d2)

d3 = []
for i in range(len(d1)):
  d3.append(d1[i] + d2[i])

print(d3)
cw = csv.writer(f3)
cw.writerows(d3)

top_5_emp(d3)

f1.close()
```

```
f2.close()
f3.close()

#Max Salary

print("Maximum Salary : ",max(sal))

#Employee whose Salary is 50000

for i in range(len(sal)):
  if sal[i] == 50000 :
    print("\nEmployee whose Salary is 50000 : ",nm[i])
```

```
File1 Contents :  [['1', 'Viraj Mandlik', 'Pune'], ['2', 'Aman upadhaye', 'Karanja'], ['3', 'abhi jadhav', 'Jalgaon'], ['4', 'Ayush Tank', 'Amravati'], ['5', 'Vedant Swami', 'Akola']]

File2 Contents :  [['1', 'CEO', '80000'], ['2', 'Manager', '70000'], ['3', 'Senior', '60000'], ['4', 'Junior', '50000'], ['5', 'Typist', '40000']]
[['1', 'Viraj Mandlik', 'Pune', '1', 'CEO', '80000'], ['2', 'Aman upadhaye', 'Karanja', '2', 'Manager', '70000'], ['3', 'abhi jadhav', 'Jalgaon', '3', 'Senior', '60000'], ['4', 'Ayush
Sorted Data :  [['1', 'Viraj Mandlik', 'Pune', '1', 'CEO', '80000'], ['2', 'Aman upadhaye', 'Karanja', '2', 'Manager', '70000'], ['3', 'abhi jadhav', 'Jalgaon', '3', 'Senior', '60000']

Top 1 Employee Viraj Mandlik

Top 2 Employee Aman upadhaye

Top 3 Employee abhi jadhav

Top 4 Employee Ayush Tank

Top 5 Employee Vedant Swami
Maximum Salary :  80000

Employee whose Salary is 50000 :  Ayush Tank
```