



emp\_sal.csv

## Assignment 1a

```
#Find statistical analysis of Employee Records
f=open("/content/sample_data/emp2.csv","r")
contents=f.read()
lines=contents.split("\n")
eid=[];nm=[];desgn=[];sal=[];
for l in lines:
    words=l.split(",")
    print(words)
    eid.append(int(words[0]))
    nm.append(words[1])
    desgn.append(words[2])
    sal.append(int(words[3]))

print("Employee IDs:",eid)
print("Employee Names:",nm)
print("Employee Designation:",desgn)
print("Employee Salary:",sal)

#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(desgn)):
    if desgn[i]=="Manager" or desgn[i]=="manager":
        print(nm[i],end="")

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

```

#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 95000
for i in range(len(sal)):
    if sal[i]==95000:
        print("\nEmployee Name whose salary is 95000:",nm[i])
        f=1

if(f==0):
    print("\nNo any employee present whose salary is 95000:",nm[i])

```

## Output

[1, 'OKMAR', 'MANAGER', '100000']

[2, 'PRANAY', 'SR.MANAGER', '95000']

[3, 'JAYESH', 'MANAGER', '8000']

[4, 'ARYAN', 'SR.MANAGER', '95000']

[5, 'VAIBHAV', 'SUPERVISOR', '500000']

Employee IDs: [1, 2, 3, 4, 5]

Employee Names: ['OKMAR', 'PRANAY', 'JAYESH', 'ARYAN', 'VAIBHAV']

Employee Designations: ['MANAGER', 'SR.MANAGER', 'MANAGER', 'SR.MANAGER', 'SUPERVISOR']

Employee Salary: [100000, 95000, 8000, 95000, 500000]

maximum salary: 500000

maximum salary: 8000

average salary: 159600.0

total salary: 798000

Employee name whose salary is maximum VAIBHAV

Employee name whose designation is manager Employee name whose salary is 100000 : OKMAR

Employee name whose designation is Sr.manager,PRANAY,ARYAN

Employee name whose salary is 95000: PRANAY

Employee name whose salary is 95000: ARYAN

## Assignment1B

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

    print("\n\nTop1 Employee",d3[0][1],d3[0][4])
    print("Top2 Employee",d3[1][1],d3[1][4])
    print("Top1 Employee",d3[2][1],d3[2][4])
    print("Top2 Employee",d3[3][1],d3[3][4])
    print("Top2 Employee",d3[4][1],d3[4][4])

f1=open("/content/sample_data/emp.csv","r")
f2=open("/content/sample_data/empsal.csv","r")
f3=open("/content/sample_data/emp_sal.csv","w")

d1=list(csv.reader(f1,delimiter=','))
d2=list(csv.reader(f2,delimiter=','))

print("\n\nFile1 Contents:",d1)
print("\n\nFile2 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()
```

## OUTPUT:

```
file1 contents: [['omkar', 'chandrapur'], ['pranay', 'solapur'],
['pratiksha', 'ghewrai'], ['vaibhav', 'nagpur'], ['ganesh',
'buldhana']]
```

```
file2 contents: [['omkar', 'manager', '1000'], ['pranay', 'SR.manager', '2000'], ['pratiksha', 'peon', '3000'], ['vaibhav', 'CEO', '4000'], ['ganesh', 'employee', '5000']]
```

```
 [['omkar', 'chandrapur', 'omkar', 'manager', '1000'], ['pranay', 'solapur', 'pranay', 'SR.manager', '2000'], ['pratiksha', 'ghewrai', 'pratiksha', 'peon', '3000'], ['vaibhav', 'nagpur', 'vaibhav', 'CEO', '4000'], ['ganesh', 'buldhana', 'ganesh', 'employee', '5000']]  
Sorted data : [['ganesh', 'buldhana', 'ganesh', 'employee', '5000'], ['vaibhav', 'nagpur', 'vaibhav', 'CEO', '4000'], ['pratiksha', 'ghewrai', 'pratiksha', 'peon', '3000'], ['pranay', 'solapur', 'pranay', 'SR.manager', '2000'], ['omkar', 'chandrapur', 'omkar', 'manager', '1000']]
```

```
Top1 Employee buldhana 5000  
top2 Employee nagpur 4000  
top1 Employee ghewrai 3000  
top2 Employee solapur 2000  
top2 Employee chandrapur 1000
```

## Assignment 1c

```
#Assignment 1c--Read the birth date of employees from the Employee  
record.Perform data transformation for birthday to age and also salary  
#which is in rupees to salary in dollars.  
import datetime  
import csv  
f=open ("/content/sample_data/employee.csv","r")  
  
data=list(csv.reader(f))  
  
print(data)  
  
from datetime import date  
  
def calculateAge(birthdate):  
    today=date.today()  
    age=today.year-birthdate.year-  
    ((today.month,today.day)<(birthdate.month,birthdate.day))  
  
    return age  
  
bdate=[]  
age=[]  
dollars=[]  
for i in range(len(data)):
```

```

print(data[i][1])

bdate.append(datetime.datetime.strptime(data[i][3], '%d-%m-%Y').date())

print("birthdate=", bdate)

for i in range(len(data)):
    age.append(calculateAge(bdate[i]))
    dollars.append((float(data[i][4]))/82)

print("Age=", age)
print("salary=", dollars)

```

Output:

```

[['1', 'omkar', 'chandrapur', '01-03-2003', '100000'], ['2', 'suyash',
'bhadravati', '24-01-2004', '50000'], ['3', 'avantika', 'pune', '03-12-
2005', '200000'], ['4', 'vedant', 'bramhapuri', '16-02-2004',
'80000'], ['5', 'vinay', 'amravati', '05-11-2000', '500000']]
Omkar
suyash
avantika
vedant
vinay
birthdate= [datetime.date(2003, 3, 1), datetime.date(2004, 24, 1),
datetime.date(2005, 12, 3), datetime.date(2004, 2, 16),
datetime.date(2000, 11, 5)]
Age= [19, 18, 17, 18, 22]
salary= [12195.121951219513, 609.7560975609756, 24390.243902439026,
975.609756097561, 6097.5609756097565]

```