NAME: Tanvi Thipe
ROLL NO: 784
PRN NO: 202201090121
BATCH: G4

ASSIGNMENT 1A

```
f=open("/content/sample_data/emp.csv","r")
contents=f.read() print(contents)
```

OUTPUT:

1,Sanvi,Manager,100000
2,Mrunmayee,Sr.Manager,95000
3,Jayesh,Manager,80000
4,Gouri,Sr.Manager,95000
5,Mahesh,Supervisor,500000

```
#find statistical analysisof employee records
f=open("/content/sample_data/emp.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 Designations:",desgn)
print("Employee Salary:",sal) OUTPUT:
['1', 'Sanvi', 'Manager', '100000']
['2', 'Mrunmayee', 'Sr.Manager', '95000']
['3', 'Jayesh', 'Manager', '80000']
['4', 'Gouri', 'Sr.Manager', '95000']
```

```
['5', 'Mahesh', 'Supervisor', '500000']
Employee IDs: [1, 2, 3, 4, 5]
Employee Names: ['Sanvi', 'Mrunmayee', 'Jayesh', 'Gouri', 'Mahesh']
Employee Designations: ['Manager', 'Sr.Manager', 'Manager', 'Sr.Manager',
'Supervisor']
Employee Salary: [100000, 95000, 80000, 95000, 500000]


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

Maximum Salary: 500000


#min salary
print("Minimum          ,min(sal))
salary:" OUTPUT:

Minimum salary: 80000


#average          sala
print("Average Salary   ,sum(sal)/len(sal))
OUTPUT:
```

Average Salary: 174000.0

```
#total salary
print("Total salary:",sum(sal))
OUTPUT:

Total salary: 870000


#employee whose sala
maximum print(       whose salary is maximum:",nm[sal.index(max(sal))])
OUTPUT:

Employee Name whose salary is maximum: Mahesh


#employee    whose    designation    is    ma
print("Employee Name whose designation is man     ,end=" ")
for i in range(len(desgn)):
  if desgn[i]=="Manager" or                    :
desgn[i]=="manager"     print(nm[i],end=" ")
OUTPUT:

Employee Name whose designation is manager Sanvi Jayesh
```

```
#employeee whose salary is 95000
print("employee name whose salary is 95000:",nm[sal.ind
OUTPUT:                                                  95000)])
employee name whose salary is 95000: Mrunmayee

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

Employee name whose salary is minimum: Jayesh



#employee whose designation is Sr.Manager
 print("Employee name whose designation is            ,end=" ")
Sr.Manager:" for i in range(len(desgn)):
  if desgn[i]=="Sr.Manager" or desgn[i]==     anager":
print(nm[i],end=" ") OUTPUT:

Employee name whose designation is Sr.Manager: Mrunmayee Gouri



#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  employee  present  whose  salary  is  45000:")
OUTPUT:

No employee present whose salary is 45000:
```

ASSIGNMENT 1B

```
f1=open("/content/sample_data/emp662.csv","r")
f2=open("/content/sample_data/sal662.csv","r")
f3=open("/content/sample_data/emp_sal662.csv","w")
contents1=f1.read() contents2=f2.read()
print(contents1) print(contents2) nm=[] sal=[]
lines1=contents1.split("\n")
```

```
lines2=contents2.split("\n") 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])
sal.append(int(words2[2]))
print(l1)
 f1.close()
f2.close()
f3.close()
 print(nm)
print(sal)
```

OUTPUT:

```
1,Sanvi,pune
2,Mrunmayee,pune
3,Jayesh,nashik
4,Gouri,nashik
5,Mahesh,pune
1,Manager,100000
2,Sr.Manager,95000 3,Manager,80000
4,Sr.Manager,95000
5,Supervisor,500000
1,Sanvi,pune,Manager,100000

2,Mrunmayee,pune,Sr.Manager,95000

3,Jayesh,nashik,Manager,80000

4,Gouri,nashik,Sr.Manager,95000

5,Mahesh,pune,Supervisor,500000

['Sanvi', 'Mrunmayee', 'Jayesh', 'Gouri', 'Mahesh']
[100000, 95000, 80000, 95000, 500000]
```

ASSIGNMENT 1C

```
#Read the birth date of employees from the employee record .Perform data
transformation

#from birthdate to age and also salary which is in rupees to salary in
dollars.
 import datetime import csv
f=open("/content/sample_data/empbday.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', 'Krish', 'Pune', '26-07-2011', '20000'], ['2', 'Vanshika', 'Pune',
'23-10-2007', '15000'], ['3', 'Tanvi', 'Pune', '17-06-2004', '30000'],
['4', 'Rupal', 'Chandrapur', '26-08-2004', '20000'], ['5', 'Shiv', 'Pune',
'19-10-2003', '25000']]
```

```
Krish
Vanshika
Tanvi
Rupal Shiv
birthdate= [datetime.date(2011, 7, 26), datetime.date(2007, 10, 23),
datetime.date(2004, 6, 17), datetime.date(2004, 8, 26),
datetime.date(2003, 10, 19)]
Age= [11, 15, 18, 18, 19]
Salary= [243.90243902439025, 182.9268292682927, 365.8536585365854,
243.90243902439025, 304.8780487804878]
```