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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 analysis of 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 salary:",min(sal))
```

OUTPUT:

```
Minimum salary: 80000
```

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

OUTPUT:

```
Employee Name whose salary is maximum: Mahesh
```

```
#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=" ")
```

OUTPUT:

```
Employee Name whose designation is manager Sanvi Jayesh
```

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

OUTPUT:

```

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 Sr.Manager:",end=" ")
for i in range(len(design)):
    if design[i]=="Sr.Manager" or design[i]=="Sr.manager":
        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]
```