ASSIGNMENT 1A

Program:

```
f=open("/content/emp.csv","r")
contents=f.read()
lines=contents.split("\n")
eid=[]; nm=[]; desgn=[]; sal=[];
for 1 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)
#Max Salary
print("Maximum Salary:",max(sal))
print("Minimum Salary:",min(sal))
print("Average Salary:",sum(sal)/len(sal))
print("Total Salary:",sum(sal))
#Employe whose salary is max
print("\nEmployee name whose salary is
maximum",nm[sal.index(max(sal))])
#Employe whose desgination is manager
print("\nEmployee name whose designation is manager",end=",")
for i in range(len(desgn)):
  if desgn[i] == "Manager" or desgn[i] == "manager":
    print(nm[i],end=" ")
print("\nEmployee name whose salary is 100000",nm[sal.index(100000)])
#Employe whose salary is min
print("\nEmployee name whose salary is
minimum", nm[sal.index(min(sal))])
```

```
print("\nEmployee name whose designation is Sr.Manager",end=",")
for i in range(len(desgn)):
    if desgn[i]=="Sr.Manager" or desgn[i]== "Sr.manager":
        print(nm[i],end=" ")

f=0
#Employe whose salary is 50000
print("\nEmployee name whose designation is Sr.Manager",end=",")
for i in range(len(sal)):
    if sal[i]==50000:
        print("\nEmployee name whose salary is 50000",nm[i])
    f=1

if(f==0):
    print("\nNo any Employee present whose salary is 50000")
```

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]
Maximum Salary: 500000
Minimum Salary: 80000
Average Salary: 174000.0
Total Salary: 870000
Employee name whose salary is maximum Mahesh
Employee name whose designation is manager, Sanvi Jayesh
Employee name whose salary is 100000 Sanvi
Employee name whose salary is minimum Jayesh
Employee name whose designation is Sr.Manager, Mrunmayee Gouri
Employee name whose designation is Sr.Manager,
No any Employee present whose salary is 50000
```

ASSIGNMENT 1B

Program:

```
f1=open("/emp.csv","r")
f2=open("/sal1.csv", "r")
f3=open("/emp sal.csv","w")
contents1=f1.read()
contents2=f2.read()
print(contents1)
print(contents2)
nm=[]
sal=[]
lines1=contents1.split("\n")
lines2=contents2.split("\n")
print(lines1)
for 11 in lines1:
 words1=l1.split(",")
  print(words1)
  print(11)
  for 12 in lines2:
    words2=12.split(",")
    if(words1[0] == words2[0]):
       11 = 11 + "," + words2[1] + "," + words2[2] + "\n"
       f3.write(11)
       nm.append(words1[1])
       sal.append(int(words2[2]))
       print(11)
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', '2,Mrunmayee,Pune', '3,Jayesh,Nashik',
'4,Gouri,Nashik', '5,Mahesh,Pune', _'']
['1', 'Sanvi', 'Pune']
1, Sanvi, Pune
1, Sanvi, Pune, Manager, 100000
['2', 'Mrunmayee', 'Pune']
2,Mrunmayee,Pune
2,Mrunmayee,Pune,Sr. Manager,95000
['3', 'Jayesh', 'Nashik']
3,Jayesh,Nashik
3, Jayesh, Nashik, Manager, 80000
['4', 'Gouri', 'Nashik<u>'</u>]
4,Gouri,Nashik
4, Gouri, Nashik, Sr. Manager, 95000
['5', 'Mahesh', 'Pune']
5, Mahesh, Pune
5, Mahesh, Pune, Supervisor, 500000
['']
```

Program:

```
import csv
def top 5 emp(d3):
  d3.sort(key=lambda x:int(x[5]), reverse=True)
 print("Sorted Data:",d3)
  print("\n\n Top1 Employee",d3[0][1],d3[0][5])
  print("Top2 Employee",d3[1][1],d3[1][5])
  print("Top3 Employee",d3[2][1],d3[2][5])
  print("Top4 Employee",d3[3][1],d3[3][5])
  print("Top5 Employee",d3[4][1],d3[4][5])
f1=open("/content/emp.csv","r")
f2=open("/content/sal.csv", "r")
f3=open("/content/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: [['1', 'Sanvi', 'Pune'], ['2', 'Mrunmayee', 'Pune'], ['3', 'Jayesh', 'Nashik'], ['4', 'Gouri', 'Nashik'], ['5', 'Mahesh', 'Pune']]
```

File2 contents: [['1', 'Manager', '100000'], ['2', 'Sr. Manager', '95000'], ['3', 'Manager', '80000'], ['4', 'Sr. Manager', '95000'], ['5', 'Supervisor', '500000']] [['1', 'Sanvi', 'Pune', '1', 'Manager', '100000'], ['2', 'Mrunmayee', 'Pune', '2', 'Sr. Manager', '95000'], ['3', 'Jayesh', 'Nashik', '3', 'Manager', '80000'], ['4', 'Gouri', 'Nashik', '4', 'Sr. Manager', '95000'], ['5', 'Mahesh', 'Pune', '5', 'Supervisor', '500000']] Sorted Data: [['5', 'Mahesh', 'Pune', '5', 'Supervisor', '500000'], ['1', 'Sanvi', 'Pune', '1', 'Manager', '100000'], ['2', 'Mrunmayee', 'Pune', '2', 'Sr. Manager', '95000'], ['4', 'Gouri', 'Nashik', '4', 'Sr. Manager', '95000'], ['3', 'Jayesh', 'Nashik', '3', 'Manager', '80000']]

Top1 Employee Mahesh 500000 Top2 Employee Sanvi 100000 Top3 Employee Mrunmayee 95000 Top4 Employee Gouri 95000 Top5 Employee Jayesh 80000

ASSIGNMENT 1C

Program:

```
import datetime
import csv
f=open("/content/empbirth.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))</pre>
  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("bithdate=",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', 'Sanvi', 'Nashik', '6-3-2004', '1000'], ['2', 'Gouri', 'Pune', '12-1-2004', '500'], ['3', 'Rajesh', 'Sambhajinagar', '13-12-2005', '300'], ['4', 'Omkar', 'Goa', '4-6-2002', '100'], ['5', 'Vidhi', 'Surat', '6-12-2005', '400']]
Sanvi
bithdate= [datetime.date(2004, 3, 6)]
Gouri
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12)]
Rajesh
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12), datetime.date(2005, 12, 13)]
Omkar
bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12), datetime.date(2005, 12, 13), datetime.date(2002, 6, 4)]
Vidhi
```

bithdate= [datetime.date(2004, 3, 6), datetime.date(2004, 1, 12), datetime.date(2005, 12, 13), datetime.date(2002, 6, 4), datetime.date(2005, 12, 6)]
Age= [19, 19, 17, 20, 17]
salary= [12.195121951219512, 6.097560975609756, 3.658536585365854, 1.2195121951219512, 4.878048780487805]