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Assignment No 1a :

```
f1 = open("/content/drive/MyDrive/Colab Notebooks/file1.csv", 'r')
f2 = open("/content/drive/MyDrive/Colab Notebooks/file2.csv", 'r')
f3 = open("/content/drive/MyDrive/Colab Notebooks/file3.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 :

```
101,Viraj
102,Raj
103,Raviraj
104,Bajaj
105,Yuvraj

101,CISCO,700000
102,TCS,2400000
103,INFOSYS,800000
104,GOOGLE,1000000
105,MICROSOFT,2000000
101,Viraj,CISCO,700000

102,Raj,TCS,2400000

103,Raviraj,INFOSYS,800000

104,Bajaj,GOOGLE,1000000

105,Yuvraj,MICROSOFT,2000000

['Viraj', 'Raj', 'Raviraj', 'Bajaj', 'Yuvraj']
[700000, 2400000, 800000, 1000000, 2000000]
```

Assignment 1b :

```
f=open("/content/drive/MyDrive/Colab Notebooks/file3.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")
```

OUTPUT :

```
['101', 'Viraj', 'CISCO', '700000']
['102', 'Raj', 'TCS', '2400000']
['103', 'Raviraj', 'INFOSYS', '800000']
['104', 'Bajaj', 'GOOGLE', '1000000']
['105', 'Yuvraj', 'MICROSOFT', '2000000']

Student IDs [101, 102, 103, 104, 105]
Student Names ['Viraj', 'Raj', 'Raviraj', 'Bajaj', 'Yuvraj']
Student Company ['CISCO', 'TCS', 'INFOSYS', 'GOOGLE', 'MICROSOFT']
Student Package [700000, 2400000, 800000, 1000000, 2000000]

Maximum Package : 2400000
Minimum Package : 700000
Average Package : 1380000.0
Total Package : 6900000

Student name whose package is maximum :  Raj
Student name whose company is Google : ,
Student name whose package is 2400000 :  Raj
Student name whose package is minimum :  Viraj
Student name whose company is Microsoft : ,
Student name whose package is 2000000 :  Yuvraj
```