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Assignment 1a :-

```
f1 = open("/content/drive/MyDrive/Colab Notebooks/pro1.csv", 'r')
f2 = open("/content/pro2.csv", 'r')
f3 = open("/content/drive/MyDrive/Colab Notebooks/pro3.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,Ram
103,Rohan
104,Siddesh
105,Ayush

101,google,40000
102,amazon,60000
103,azure,50000
104,adobe,78000
105,tesla,45000
101,Viraj,google,40000

102,Ram,amazon,60000

103,Rohan,azure,50000

104,Siddesh,adobe,78000

105,Ayush,tesla,45000

['Viraj', 'Ram', 'Rohan', 'Siddesh', 'Ayush']
[40000, 60000, 50000, 78000, 45000]
```

Assignment 1b:-

```
f=open("/content/drive/MyDrive/Colab Notebooks/pro3.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 40000
print("\nStudent name whose package is 40000 : ",nm[package.index(40000)])
#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 60000
for i in range(len(package)):
    if package[i] == 60000:
        print("\nStudent name whose package is 60000 : ", nm[i])
        f = 1
if(f==0):
 print("No any Student present whose package is ",60000)
```

Output :

```
['101', 'Viraj', 'google', '40000']
['102', 'Ram', 'amazon', '60000']
['103', 'Rohan', 'azure', '50000']
['104', 'Siddesh', 'adobe', '78000']
['105', 'Ayush', 'tesla', '45000']

Student IDs [101, 102, 103, 104, 105]
Student Names ['Viraj', 'Ram', 'Rohan', 'Siddesh', 'Ayush']
Student Company ['google', 'amazon', 'azure', 'adobe', 'tesla']
Student Package [40000, 60000, 50000, 78000, 45000]

Maximum Package : 78000
Minimum Package : 40000
Average Package : 54600.0
Total Package : 273000

Student name whose package is maximum :  Siddesh
Student name whose company is Google : ,
Student name whose package is 40000 :  Viraj
Student name whose package is minimum :  Viraj
Student name whose company is Microsoft : ,
Student name whose package is 60000 :  Ram
```