Name – Onkar Katkamwar

Roll No. – 630

PRN – 202201040098

Practical Assignment 1a

```python
f1=open("student.csv","r")
f2=open("placement.csv","r")
f3=open("student_detail.csv","w")
contents1=f1.read()
contents2=f2.read()
print(contents1)
print(contents2)
nm=[]
package=[]
lines1=contents1.split("\n")
lines2=contents2.split("\n")
lines1.pop()
lines2.pop()

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])
            package.append(int(words2[2]))

f1.close()
f2.close()
f3.close()
```

.csv file
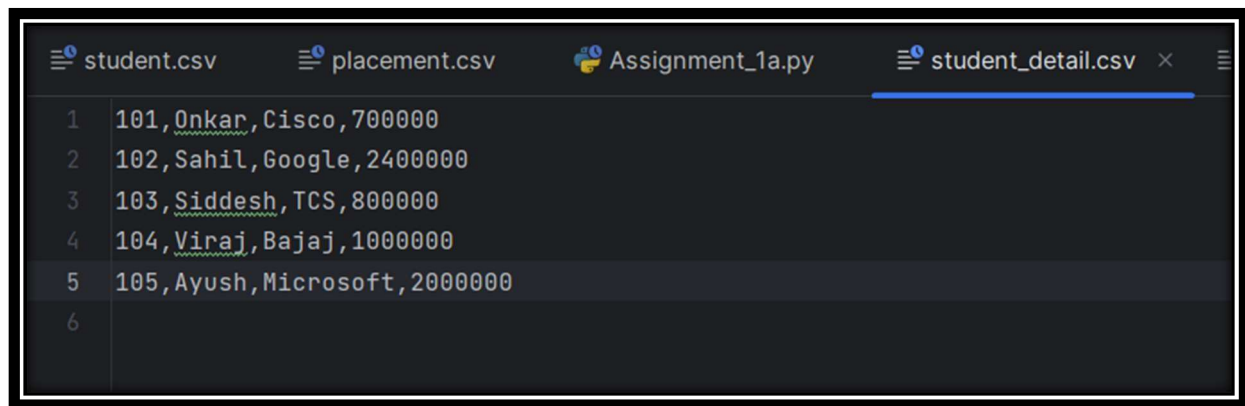
OUTPUT :

```
 1 C:\Users\okatk\PycharmProjects\helloworld\venv\
   Scripts\python.exe C:\Users\okatk\AppData\Roaming\
   JetBrains\PyCharmCE2023.1\scratches\Assignment_1a.py
 2 101,Onkar
 3 102,Sahil
 4 103,Siddesh
 5 104,Viraj
 6 105,Ayush
 7
 8 101,Cisco,700000
 9 102,Google,2400000
10 103,TCS,800000
11 104,Bajaj,1000000
12 105,Microsoft,2000000
13 101,Onkar,Cisco,700000
14
15 102,Sahil,Google,2400000
16
17 103,Siddesh,TCS,800000
18
19 104,Viraj,Bajaj,1000000
20
21 105,Ayush,Microsoft,2000000
22
23 ['Onkar', 'Sahil', 'Siddesh', 'Viraj', 'Ayush']
24 [700000, 2400000, 800000, 1000000, 2000000]
25
26 Process finished with exit code 0
27
```

Assignment 1b

```python
f=open("student_detail.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=",")
```

```python
#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")
```

.csv file

```
1   101,Onkar,Cisco,700000
2   102,Sahil,Google,2400000
3   103,Siddesh,TCS,800000
4   104,Viraj,Bajaj,1000000
5   105,Ayush,Microsoft,2000000
6
```

OUTPUT :

```
File - Assighnment_1b
 1 C:\Users\okatk\PycharmProjects\helloworld\venv\
   Scripts\python.exe C:\Users\okatk\AppData\Roaming\
   JetBrains\PyCharmCE2023.1\scratches\Assighnment_1b.py

 2 ['101', 'Onkar', 'Cisco', '700000']
 3 ['102', 'Sahil', 'Google', '2400000']
 4 ['103', 'Siddesh', 'TCS', '800000']
 5 ['104', 'Viraj', 'Bajaj', '1000000']
 6 ['105', 'Ayush', 'Microsoft', '2000000']
 7
 8 Student IDs [101, 102, 103, 104, 105]
 9 Student Names ['Onkar', 'Sahil', 'Siddesh', 'Viraj
   ', 'Ayush']
10 Student Company ['Cisco', 'Google', 'TCS', 'Bajaj', '
   Microsoft']
11 Student Package [700000, 2400000, 800000, 1000000,
   2000000]
12
13 Maximum Package : 2400000
14 Minimum Package : 700000
15 Average Package : 1380000.0
16 Total Package : 6900000
17
18 Student name whose package is maximum :  Sahil
19 Student name whose company is Google : ,Sahil
20 Student name whose package is 2400000 :  Sahil
21 Student name whose package is minimum :  Onkar
22 Student name whose company is Microsoft : ,Ayush
23 Student name whose package is 2000000 :  Ayush
24
25 Process finished with exit code 0
26
```