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EDS ASSIGNMENT

Assignment 1a

Code:

```
f1=open("/content/drive/MyDrive/Colab Notebooks/student.csv","r")
f2=open("/content/drive/MyDrive/Colab Notebooks/placement.csv","r")
f3=open("/content/drive/MyDrive/Colab
Notebooks/student_details.csv","w")
contents1=f1.read()
contents2=f2.read()
print(contents1)
print()
print(contents2)
print()
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]))
           print(l1)

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

.csv files

student.csv

101	Tanmay
102	Rohan
103	Sahil
104	Yash
105	Aditya

placement.csv

101	Accenture	700000
102	Cisco	2400000
103	Wipro	800000
104	TCS	1000000
105	Amazon	2000000

Output:

```
101,Tanmay
102,Rohan
103,Sahil
104,Yash
105,Aditya

101,Accenture,700000
102,Cisco,2400000
103,Wipro,800000
104,TCS,1000000
105,Amazon,2000000

101,Tanmay,Accenture,700000

102,Rohan,Cisco,2400000

103,Sahil,Wipro,800000

104,Yash,TCS,1000000

105,Aditya,Amazon,2000000
```

Assignment 1b

Code:

```
f=open("/content/drive/MyDrive/Colab
Notebooks/student_details.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 Wipro
print("Student name whose company is Wipro : ",end=",")
for i in range(len(company)):
  if company[i]=="Wipro":
    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 Accenture
print("Student name whose company is Accenture : ",end=",")
for i in range(len(company)):
   if company[i]=="Accenture":
    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 files

101	Tanmay	Accenture	700000
102	Rohan	Cisco	2400000
103	Sahil	Wipro	800000
104	Yash	TCS	1000000
105	Aditya	Amazon	2000000

Output:

```
['101', 'Tanmay', 'Accenture', '700000']
['102', 'Rohan', 'Cisco', '2400000']
['103', 'Sahil', 'Wipro', '800000']
['104', 'Yash', 'TCS', '1000000']
['105', 'Aditya', 'Amazon', '2000000']

Student IDs [101, 102, 103, 104, 105]
Student Names ['Tanmay', 'Rohan', 'Sahil', 'Yash', 'Aditya']
Student Company ['Accenture', 'Cisco', 'Wipro', 'TCS', 'Amazon']
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 : Rohan
Student name whose company is Wipro : ,Sahil
Student name whose package is 2400000 : Rohan
Student name whose package is minimum : Tanmay
Student name whose company is Accenture : ,Tanmay
Student name whose package is 2000000 :  Aditya
```