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'''Name: Mohit Muley  
Div: B Batch: B4  
Roll no.: 276 PRN: 202201040192  
Subject: EDS  
Practical No.1 Submission.'''
```

```
import csv  
  
f1=open('/content/student.csv','r')  
f2=open('/content/Result.csv','r')  
f3=open('/content/student_details.csv','w')  
  
#reading the files  
data1=list(csv.reader(f1, delimiter=','))  
data2=list(csv.reader(f2, delimiter=','))  
  
#printing the file contents  
print("This student file contents are:",data1,"\n")  
print("This result file contents are:",data2)  
  
#merging two files  
data3=[]  
for i in range(len(data1)):  
    data3.append(data1[i]+data2[i])  
    cf3=csv.writer(f3)  
    cf3.writerows(data3)  
print("\n\nThe merged file is:",data3)  
  
#extracting and printing result data  
result=[]  
for i in range(1,len(data1)):  
    result.append(int(data2[i][1]))
```

```
print("\nThe result data is:")

for i in result:
    print(i)

#max and min result
print("\nThe maximum result is:",max(result))
print("The minimum result is:",min(result))

#avg result
sum=0
for i in result:
    sum=sum+i
print("The average result is:",sum/len(result))

#Total marks
print("Total marks is:",sum)

#Percentage
print("The percentage=",(sum/(len(result)*100)*100))

#Total count
print("The total count is:",len(result))

#function to display top 5 results in the file
def top5res(data3):
    data3.sort(key=lambda x: x[5], reverse=True)
    print("\nTop 5 result records are:")
    for i in range(6):
        print(data3[i])

top5res(data3)#calling the function
```

#closing the file

f1.close()

f2.close()

f3.close()

## **Output:-**

This student file contents are: [['Student Id', 'Name ', 'Age', 'Gender'], ['1001', 'Mohit', '18', 'Male'], ['1002', 'Manas', '18', 'Male'], ['1003', 'Chinmay', '18', 'Male'], ['1004', 'Atharva', '18', 'Male'], ['1005', 'Aditya', '18', 'Male'], ['1006', 'Aditi', '18', 'Male'], ['1007', 'Rushikesh', '18', 'Male'], ['1008', 'Hrishikesh', '18', 'Male'], ['1009', 'Harish', '18', 'Male'], ['1010', 'Darshan', '18', 'Male']]

This result file contents are: [['Student Id', 'Score'], ['1001', '95'], ['1002', '90'], ['1003', '97'], ['1004', '96'], ['1005', '97'], ['1006', '83'], ['1007', '89'], ['1008', '94'], ['1009', '92'], ['1010', '79']]

The merged file is: [['Student Id', 'Name ', 'Age', 'Gender', 'Student Id', 'Score'], ['1001', 'Mohit', '18', 'Male', '1001', '95'], ['1002', 'Manas', '18', 'Male', '1002', '90'], ['1003', 'Chinmay', '18', 'Male', '1003', '97'], ['1004', 'Atharva', '18', 'Male', '1004', '96'], ['1005', 'Aditya', '18', 'Male', '1005', '97'], ['1006', 'Aditi', '18', 'Male', '1006', '83'], ['1007', 'Rushikesh', '18', 'Male', '1007', '89'], ['1008', 'Hrishikesh', '18', 'Male', '1008', '94'], ['1009', 'Harish', '18', 'Male', '1009', '92'], ['1010', 'Darshan', '18', 'Male', '1010', '79']]

The result data is:

95  
90  
97  
96  
97  
83  
89  
94  
92  
79

The maximum result is: 97

The minimum result is: 79

The average result is: 91.2

Total marks is: 912

The percentage= 91.2

The total count is: 10

Top 5 result records are:

['Student Id', 'Name ', 'Age', 'Gender', 'Student Id', 'Score']  
['1003', 'Chinmay', '18', 'Male', '1003', '97']  
['1005', 'Aditya', '18', 'Male', '1005', '97']  
['1004', 'Atharva', '18', 'Male', '1004', '96']  
['1001', 'Mohit', '18', 'Male', '1001', '95']  
['1008', 'Hrishikesh', '18', 'Male', '1008', '94']

```
colab.research.google.com/drive/1GVcA13d3y5G4_zBvevAijQ8v735Rlomr#scrollTo=Ca78cYXidEQ-
csv_impfile.ipynb
File Edit View Insert Runtime Tools Help All changes saved
+ Code + Text
f1.close()
f2.close()
f3.close()

This student file contents are: [['Student Id', 'Name ', 'Age', 'Gender'], ['1001', 'Mohit', '18', 'Male'], ['1002', 'Manas', '18', 'Male'], ['1003', 'Chinmay', '18', 'Male'], ['1004', 'Atharva', '18', 'Male'], ['1005', 'Aditya', '18', 'Male'], ['1006', 'Hrishikesh', '18', 'Male'], ['1007', 'Rishabh', '18', 'Male'], ['1008', 'Rishabh', '18', 'Male']]

This result file contents are: [['Student Id', 'Score'], ['1001', '95'], ['1002', '90'], ['1003', '97'], ['1004', '96'], ['1005', '97'], ['1006', '83'], ['1007', '97'], ['1008', '94']]

The merged file is: [['Student Id', 'Name ', 'Age', 'Gender', 'Student Id', 'Score'], ['1001', 'Mohit', '18', 'Male', '1001', '95'], ['1002', 'Manas', '18', 'Male', '1002', '90'], ['1003', 'Chinmay', '18', 'Male', '1003', '97'], ['1004', 'Atharva', '18', 'Male', '1004', '96'], ['1005', 'Aditya', '18', 'Male', '1005', '97'], ['1006', 'Hrishikesh', '18', 'Male', '1006', '83'], ['1007', 'Rishabh', '18', 'Male', '1007', '97'], ['1008', 'Rishabh', '18', 'Male', '1008', '94']]

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colab.research.google.com/drive/1GVcA13d3y5G4_zBvevAijQ8v735Rlomr#scrollTo=Ca78cYXidEQ-
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File Edit View Insert Runtime Tools Help All changes saved
+ Code + Text

The result data is:
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Top 5 result records are:
[['Student Id', 'Name ', 'Age', 'Gender', 'Student Id', 'Score']
['1003', 'Chinmay', '18', 'Male', '1003', '97']
['1005', 'Aditya', '18', 'Male', '1005', '97']
['1004', 'Atharva', '18', 'Male', '1004', '96']
['1001', 'Mohit', '18', 'Male', '1001', '95']
['1008', 'Hrishikesh', '18', 'Male', '1008', '94']]

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