import pandas as pd

def map\_reduce(input\_file):

df = pd.read\_csv(input\_file)

#Map phase males

deceased\_males = df[(df['Survived'] == 0) & (df['Sex'] == 'male')]

#reduce by average age

avg\_age\_deceased\_males = deceased\_males['Age'].mean()

#Map phase females

deceased\_females = df[(df['Survived'] == 0) & (df['Sex'] == 'female')]

#Reduce phase females by counts

count\_deceased\_females\_class = deceased\_females['Pclass'].value\_counts() #if there is column Class is presrnt in dataset replace Pclass by Class

return avg\_age\_deceased\_males, count\_deceased\_females\_class

input\_file = "C:/Users/rushi/Documents/titanic.csv"

avg\_age, female\_class\_count = map\_reduce(input\_file)

input\_file = "C:/Users/rushi/Documents/titanic.csv"

avg\_age, female\_class\_count = map\_reduce(input\_file)

print("Average age of males who died", avg\_age)

print("Females count by class")

print(female\_class\_count)