#Create CSV file for product selling for 6 Months ( Prod\_No | Prod\_Name | Jan | Feb | Mar | Apr | May | Jun) for 5 products.

#Perform following operations.

#1. Add 12 Records. Take input from user.

import csv

import pandas as pd

header = ["Prod\_No", "Prod\_Name", "Jan", "Feb", "Mar", "Apr", "May", "Jun"]

data=[[1,'Mobile',200,250,150,320,145,154], [2,'Tablet',150,260,450,159,258,154], [ [3,'Pen',125,145,254,125,352,145], [4,'White Borad',150,254,126,452,125,152], [5,'Pages',156,125,254,165,516,652],[6,'Notebooks',254,545,541,545,654,131], [7,'Pencil',215,254,145,531,56,364], [8,'Pencil Box',165,85,56,65,254,564], [9,'Books',165,123,45,65,156,56], [10,'Bag',483,564,214,123,64,323], [11,'Eraser',445,541,542,156,542,562],[12,'Scale',410,456,254,125,621,452]]

with open('c:\sqlite3\CSV\product.csv','w',newline='') as f:

w=csv.writer(f)

w.writerow(header)

w.writerows(data)

for i in range(12):

no=int(input("Enter Product No. :"))

name=input("Enter Product Name :")

jan=int(input("Enter January sell :"))

feb=int(input("Enter February sell :"))

mar=int(input("Enter March sell :"))

apr=int(input("Enter April sell :"))

may=int(input("Enter May sell :"))

june=int(input("Enter June sell :"))

sub\_lis=[no,name,jan,feb,mar,apr,may,june]

w.writerow(sub\_lis)

with open('c:\sqlite3\CSV\product.csv','r',errors='ignore') as f:

w=csv.reader(f)

for i in w:

print(i)

#2. Create dataframe.

csv\_file='c:\sqlite3\CSV\product.csv'

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

df

#3. Change Column Name Product No, Product Name, January, February, March, April, May, June.

df.columns=["Product No","Product Name","January","February","March","April","May","June"]

df

#4. Add column "Total Sell" to count total of all month and "Average Sell"

df["Total Sell"]=df.iloc[:,2:].sum(axis=1)

df["Average Sell"]=df.iloc[:,2:8].mean(axis=1)

df

#5. Add 2 row at the end.

df.loc[17]=(13,"DOOR",100,200,300,400,500,600,2100,350.000000)

df.loc[18]=(14,"WINDOW",100,200,300,400,500,600,2100,350.000000)

df

#6. Add 2 row after 3rd row.

new\_rows = pd.DataFrame([[20, "CHESS", 80, 70, 60, 50, 40, 30,330,305.000000], [21, "COVER", 20, 30, 40, 50, 60, 70,270,211.666667]], columns=df.columns)

df = pd.concat([df.iloc[:3], new\_rows, df.iloc[3:]]).reset\_index(drop=True)

df

#7. Print first 5 row.

df.head()

df

#8. Print Last 5 row.

df.tail()

df

#9. Print row 6 to 10.

df.iloc[5:10,:]

df

#10. Print only product name.

df.iloc[:,1]

df["Product Name"]

df

#11. Print sell of January month with product id and product name.

df[["Product No","Product Name","January"]]

df

#12. Print only those product id , product name where january sell is > 5000 and February sell is >8000

df[(df["January"] > 5000) & (df["February"] > 8000)][["Product No", "Product Name"]]

df

#13. Print record in sorting order of Product name.

df.sort\_values(by="Product Name")

df

#14. Display only odd index number column record.

df.iloc[:,1::2]

df

#15. Display alternate row.

df.iloc[::2]

df