*# import library***import** pandas **as** pd  
**import** numpy **as** np  
**import** matplotlib.pyplot **as** plt  
**import** seaborn **as** sns  
*## import data*df = pd.read\_csv(**"C:/Users/NIKITA/blinkit\_data.csv"**)  
print(df)  
*## top 20 data*print(df.head(20))  
*# bottom 10*print(df.tail(10))  
*# size of data*print(**'Size of Data :'**, df.shape)  
*#filed info*print(df.columns)  
*# datatypes*print(df.dtypes)  
*# DATA CLEANING --using unique*print(df[**'Item Fat Content'**].unique())  
*#replace*df[**'Item Fat Content'**] = df[**'Item Fat Content'**].replace({**'LF'**:**'Low Fat'**, **'low fat'**:**'Low Fat'**,**'reg'**:**'Regular'**})  
*#for see changes again print unique*print(df[**'Item Fat Content'**].unique())  
*#buiness requrment  
#KPI REQUIRMENTS  
#total sales*total\_sales=df[**'Sales'**].sum()   
*#avrage sales*avg\_sales=df[**'Sales'**].mean()  
*#no. of items sold*no\_of\_item\_sold=df[**'Sales'**].count()  
*# avrage rating*avg\_rating=df[**'Rating'**].mean()  
*#Display*print(**f"Total Sales: {**total\_sales**:,.0f}"**)   
print(**f"Average Sales: {**avg\_sales**:,.0f}"**)   
print(**f"No of Items Sold: {**no\_of\_item\_sold**:,.0f}"**)  
print(**f"Average Ratings: {**avg\_rating**:,.0f}"**)   
*#CHARTS REQUIRMENTS  
# total sales by fat contents*sales\_by\_fat = df.groupby(**'Item Fat Content'**)[**'Sales'**].sum()  
plt.pie(sales\_by\_fat,labels=sales\_by\_fat.index,autopct=**'%.1f%%'**,startangle=90)  
plt.title(**'Sales by fat Content'**)  
plt.axis(**'equal'**)  
plt.show()  
  
*# Total sales by Item Type*Sales\_by\_type=df.groupby(**'Item Type'**)[**"Sales"**].sum().sort\_values(ascending=**False**)  
  
plt.figure(figsize=(10,6))  
bars=plt.bar(Sales\_by\_type.index,Sales\_by\_type.values)  
plt.xticks(rotation=90)  
plt.ylabel(**'Item Type'**)  
plt.title(**'Total Sales by Item Type'**)  
  
**for** bar **in** bars:  
 plt.text(bar.get\_x() + bar.get\_width() /2, bar.get\_height(),**f'{**bar.get\_height()**:,.0f}'**,ha=**'center'**,va=**'bottom'**, fontsize=8)  
  
plt.tight\_layout()  
plt.show()  
  
*# Fat content by Outlet for Total Sales*grouped=df.groupby([**'Outlet Location Type'**,**'Item Fat Content'**])[**'Sales'**].sum().unstack()  
grouped=grouped[[**'Regular'**,**'Low Fat'**]]  
ax=grouped.plot(kind=**'bar'**,figsize=(8,5),title=**'Outlet Tier by Item Fat Content'**)  
plt.xlabel(**'Outlet Location Tier'**)  
plt.ylabel(**'Total Sales'**)  
plt.legend(title=**'Item Fat Content'**)  
plt.tight\_layout()  
plt.show()  
  
*# Total Sales by Outlet Establishment*Sales\_by\_year=df.groupby(**'Outlet Establishment Year'**)[**'Sales'**].sum().sort\_index()  
plt.figure(figsize=(9,5))  
plt.plot(Sales\_by\_year.index,Sales\_by\_year.values,marker=**'o'**,linestyle=**'-'**)  
plt.xlabel(**'Outlet Establishment Year'**)  
plt.ylabel(**'Total Sales'**)  
plt.title(**'Outlet Establishment'**)  
  
**for** x,y **in** zip(Sales\_by\_year.index,Sales\_by\_year.values):  
 plt.text(x,y,**f'(y:,.0f)'**,ha=**'center'**,va=**'bottom'**,fontsize=8)  
plt.tight\_layout()  
plt.show()  
  
*# Sales by Outlet Size*Sales\_by\_size = df.groupby(**'Outlet Size'**)[**'Sales'**].sum()  
plt.figure(figsize=(4,4))  
plt.pie(Sales\_by\_size,labels=Sales\_by\_size.index,autopct=**'%1.1f%%'**,startangle=90)  
plt.title(**'Outlet Size'**)  
plt.tight\_layout()  
plt.show()  
  
*#Sales by Outlet Location*Sales\_by\_location=df.groupby(**'Outlet Location Type'**)[**'Sales'**].sum().reset\_index()  
Sales\_by\_location=Sales\_by\_location.sort\_values(**'Sales'**,ascending=**False**)  
plt.figure(figsize=(8,3))   
ax=sns.barplot(x=**'Sales'**,y=**'Outlet Location Type'**,data=Sales\_by\_location)  
plt.title(**'Total Sales By Outlet Location Type'**)  
plt.xlabel(**'Total Sales'**)  
plt.ylabel(**'Outlet Location Type'**)  
plt.tight\_layout()  
plt.show()