HACKATHON

H1-program

Stock Keeping Units and Sales(Pie chart)

Matplotlib and pandas are used for plotting , handling and manipulation of data respectively

pd.read_csv is used to load the dataset and read the csv values stored in the dataset

head() is used to limit the dataset values to a certain limit

groupby() is used to group the data by the SKU(Stock Keeping Units) (Area of the SKU location) in the column and also the amount of sales (Sales_Amount) column

sum() is used to add all the sales of each SKU (if any SKU is repeated)

plt.figure(figsize()) is used to create a figure of the specified size

plt.pie() is used to create a pie chart and the parameters passed are the factors considered to plot the pie chart

plt.title() is used to provide title to the pie chart

plt.axis('equal') is used to make sure that the pie chart is in the form of a circle

plt.show() is used to display the chart on the screen

H2-program

Product ID and Category (Bar chart)

Matplotlib and pandas are used for plotting , handling and manipulation of data respectively

pd.read_csv is used to load the dataset and read the csv values stored in the dataset

head() is used to limit the dataset values to a certain limit

values.count() is used to count how many times each value has occurred in that column

plt.figure(figsize()) is used to create a figure of the specified size

plot() is used to plot a bar chart using the given columns (here, product id and category)

plt.xlabel() and ylabel() are used to provide column titles

plt.xticks(rotation=45) rotates the labels on the X-axis (the categories) by 45 degrees to avoid overlapping text if there are many categories. It makes the chart more readable.

plt.tight_layout() adjusts the spacing of elements in the plot so that labels, titles don't overlap

plt.show() is used to display the chart on the screen

H3-program

Product ID and Units Sold (Bar chart)

Matplotlib and pandas are used for plotting , handling and manipulation of data respectively

pd.read_csv is used to load the dataset and read the csv values stored in the dataset

head() is used to limit the dataset values to a certain limit

groupby() is used to group the data by in the Product ID column and also the Units Sold column

plt.figure(figsize()) is used to create a figure of the specified size

plot() is used to plot a bar chart using the given columns (here, product id and category)

plt.xlabel() and ylabel() are used to provide column titles

plt.xticks(rotation=45) rotates the labels on the X-axis (the categories) by 45 degrees to avoid overlapping text if there are many categories. It makes the chart more readable.

plt.tight_layout() adjusts the spacing of elements in the plot so that labels, titles don't overlap

plt.show() is used to display the chart on the screen