File Edit View Run Kernel Settings Help **1** + % □ □ **>** ■ C **>>** Code

[2]: #matplotlib and seaborn visualization library which is used convert table data into graphs/charts

import matplotlib.pyplot as plt import seaborn as sns



JupyterLab 🖸 🐞 Python 3 (ipykernel) 🔘 🗮 📴



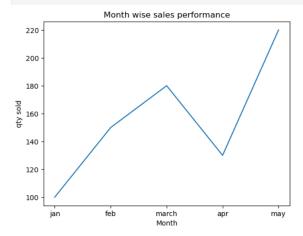
[6]: print(dir(plt),end=" ")

['AbstractContextManager', 'Annotation', 'Arrow', 'Artist', 'Autolocator', 'AxLine', 'Axes', 'BackendFilter', 'Button', 'Circle', 'Colormap', 'Enum', 'Exit Stack', 'Figure', 'FigureGanayaBase', 'FigureManagerBase', 'FixedFormatter', 'FixedLocator', 'Formatter', 'Formatter', 'Formatter', 'Formatter', 'Formatter', 'Goloraber', 'MaxLlocator', 'Moliformatter', 'Millocator', 'PolarAxes', 'Polygon', 'Rectangle', 'ScalarFormatter', 'Sidder', 'SubplotSpec', 'TYPE_CHECKING', 'Text', 'TickHelper', 'Widget', 'MO_PYPLOT_NOTE', 'REPL_DISPLAYHOOK', '_ReplDisplayHook', '_annotations_', 'bullions_', '_acahed_, '_doc_', 'file_', 'loader_, '_name_, '_package_', _spec_', 'add_pyplot_note', 'api', 'auto_draw_if_interactive', 'backend_mod', 'color_sequences', 'colormaps', 'copy_dostring_ and_deprecators', 'dostring', 'draw_all_if_interactive', 'get_backend_mod', 'get_pyplot_commands', 'log', 'pylab_helpers', 'wann_if_gui_out_of_main_thread', 'acorr', 'angle_spectrum', 'annotations,' 'arrow', 'autoscale', 'autumn', 'axes', 'axhline', 'axhspan', 'axis', 'axline', 'axvline', 'axvspan', 'backend_registry', 'bar', 'bar_label', 'barbs', 'barh', 'bone', 'box', 'boxplot', 'broken_barh', 'cast', 'cbook', 'cla', 'clabel', 'clf', 'clim', 'close', 'cm', 'cohere', 'color_sequences', 'color_barb', 'color_maps', 'connect', 'contour', 'contourf', 'col', 'copper', 'csd', 'cycler', 'delaxes', 'disconnect', 'disconnect', 'fill between', 'fill_between', 'fill_betwee 'yticks']

[8]: print(dir(sns),end=" ")

['FacetGrid', 'JointGrid', 'PairGrid', '_builtins_', '_cached_', '_doc_', '_file_', '_loader_', '_name_', '_package_', '_path_', '_spec__', '_version__', '_base', '_compat', '_core', '_docstrings', '_orig_rc_params', '_statistics', '_stats', 'algorithms', 'axes_style', 'axisgrid', 'barplo t', 'blend_palette', 'boxenplot', 'boxplot', 'categorical', 'catplot', 'choose_colorbrewer_palette', 'choose_cubehelix_palette', 'choose_dish_palette', 'closer_palette', 'closer_palette', 'cayon_palette', 'crayons', 'cubehelix_palette', 'despine', 'despine', 'displot', 'distributions', 'diverging_palette', 'dogplot', 'ecdfplot', 'external', 'get_data_hom e', 'get_dataset_nammes', 'heatmap', 'histplot', 'hls_palette', 'hus_palette', 'jointplot', 'kdeplot', 'light_palette', 'lineplot', 'load_datase t', 'matrix', 'miscplot', 'move_legend', 'mpl', 'mplette', 'pairplot', 'palettes', 'palplot', 'plotting_context', 'pointplot', 'romod', 'regorton', 'reser_orig', 'residplot', 'rugplot', 'saturate', 'scatterplot', 'set', 'set_color_codes', 'set_context', 'set_palette', 'set_style', 'set_theme', 'stripplot', 'swarmplot', 'utils', 'violinplot', 'widgets', 'xkcd_palette', 'xkcd_rgb']

[20]: x=["jan","feb","march","apr","may"] y=[100,150,180,130,220] plt.plot(x,y) plt.xlabel("Month") plt.ylabel("qty sold") plt.title("Month wise sales performance") plt.show()



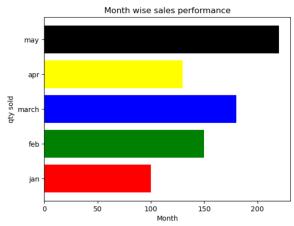
[26]: x=["jan","feb","march","apr","may"] y=[100,150,180,130,220] c=["red","green","blue","yellow","black"] plt.bar(x,y,color=["red","green","blue","yellow","black"]) plt.xlabel("Month") plt.ylabel("qty sold") plt.title("Month wise sales performance") plt.show()



```
jan feb march apr may
```

```
[28]: x=["jan", "feb", "march", "apr", "may"]
y=[100,150,180,130,220]
c=["red", "green", "blue", "yellow", "black"]

plt.barh(x,y,color=["red", "green", "blue", "yellow", "black"])
plt.xlabel("Month")
plt.ylabel("qty sold")
plt.title("Month wise sales performance")
plt.show()
```



```
[44]: month = ["Jan","Feb","Mar","April"]
values= [150,160,250,175]

plt.figure(figsize=(8,6))
plt.pie(values,labels=month,startangle=0,explode=[0,0,0,0.05],shadow=False,colors=["green","blue","yellow","red"])
plt.legend(title="month")
plt.title('sales performance')
plt.show()
```



Programming Language Popularity Ruby

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C++

```
16.2%
Java
```

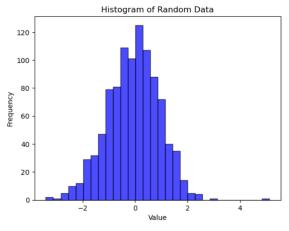
```
import matplotlib.pyplot as plt
import numpy as np

# Sample data
data = np.random.randn(1000) # Generate 1000 random numbers from a normal distribution

# Plotting the histogram
plt.hist(data, bins=30, color='blue', alpha=0.7, edgecolor='black')

# Adding titles and labels
plt.title('Histogram of Random Data')
plt.xlabel('Value')
plt.ylabel('Frequency')

# Show the plot
plt.show()
```



[]: