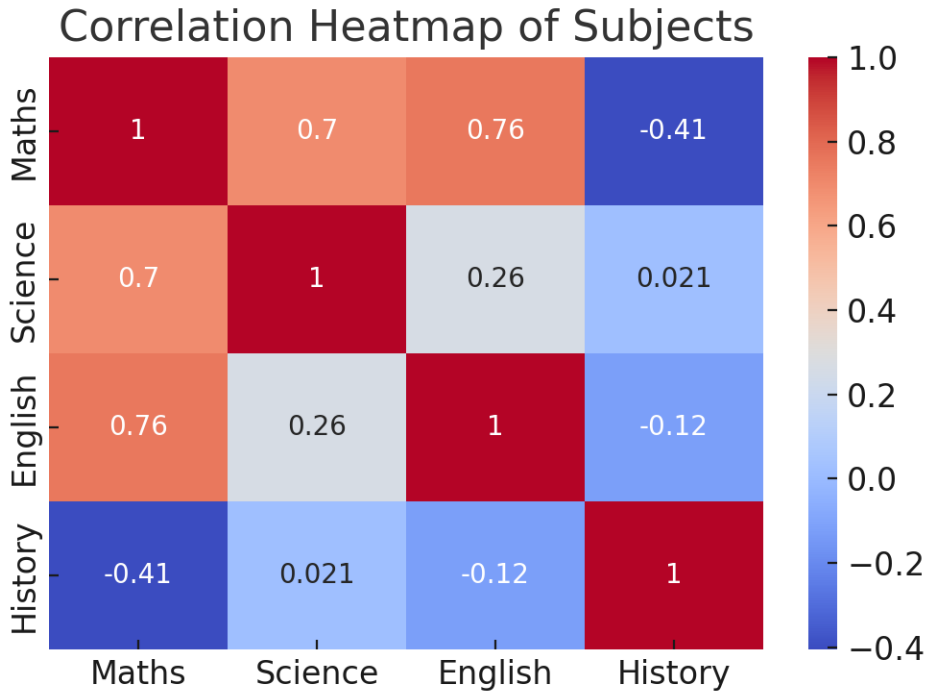
1..**co relation heat map**




```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd

# Sample dataset
df = pd.DataFrame({
    "Maths": [90, 78, 85, 95, 88, 76],
    "Science": [85, 80, 70, 92, 89, 75],
    "English": [70, 65, 78, 80, 75, 68],
    "History": [60, 72, 65, 75, 70, 80]
})

# Correlation matrix
corr = df.corr()
```

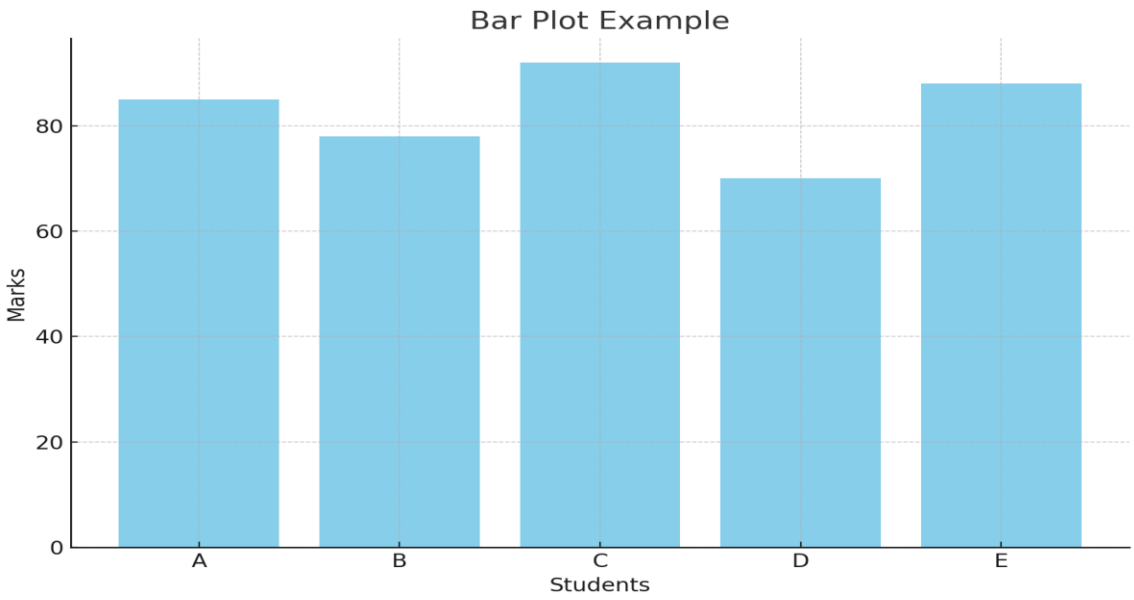
```
plt.figure(figsize=(6,4))
sns.heatmap(corr, annot=True, cmap="coolwarm")
plt.title("Correlation Heatmap of Subjects")
plt.show()
```

2. Bar Plot

```
import matplotlib.pyplot as plt

students = ["A", "B", "C", "D", "E"]
marks = [85, 78, 92, 70, 88]

plt.bar(students, marks, color="skyblue")
plt.xlabel("Students")
plt.ylabel("Marks")
plt.title("Bar Plot Example")
plt.show()
```

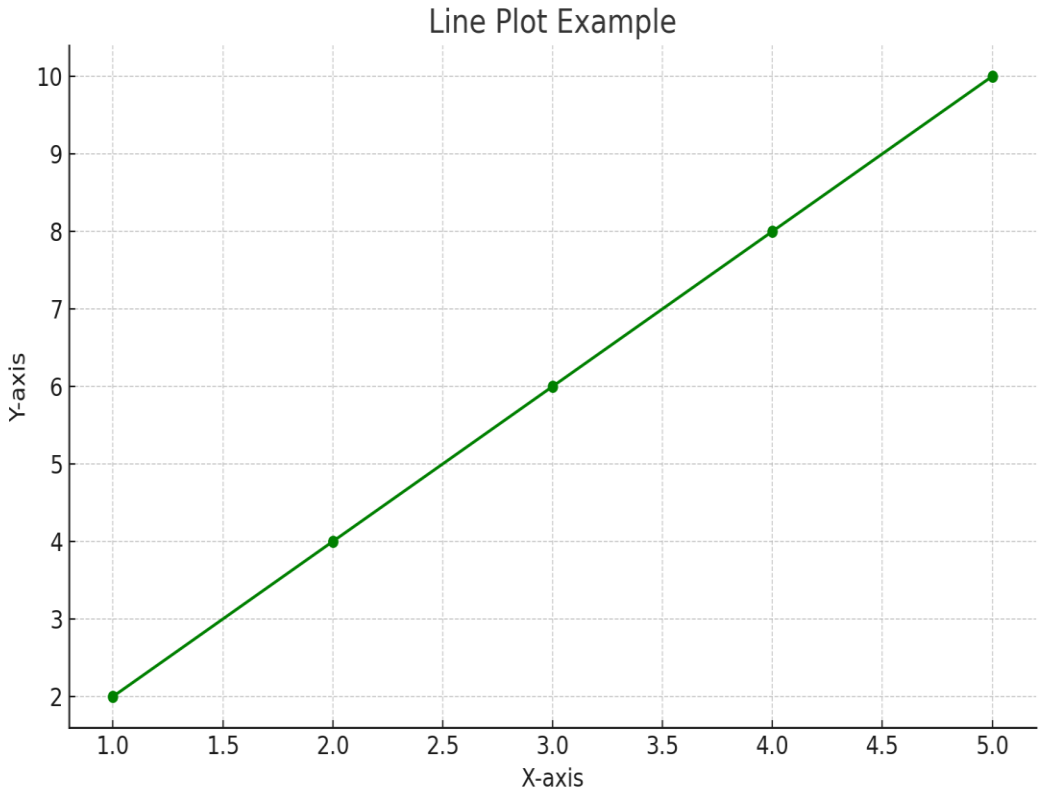


3. Line Plot

```
import matplotlib.pyplot as plt


x = [1,2,3,4,5]
y = [2,4,6,8,10]


plt.plot(x, y, marker="o", color="green")
plt.title("Line Plot Example")
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.show()
```



4. Pie Chart

```
import matplotlib.pyplot as plt

sizes = [30, 20, 25, 25]
labels = ["Apple", "Banana", "Mango", "Orange"]

plt.pie(sizes, labels=labels, autopct='%1.1f%%', startangle=90)
plt.title("Pie Chart Example")
plt.show()
```