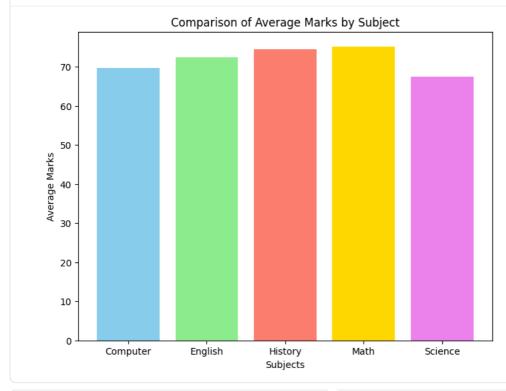
```
import pandas as pd
import matplotlib.pyplot as plt
```

```
# Load dataset
df = pd.read_csv("/content/student_marks .csv")
# Display first few rows
print(df.head())
   Student
             Subject Marks
 Student1
               Math
  Student1
             Science
2 Student1
             English
                         68
            History
3 Student1
4 Student1 Computer
```

```
# Group by Subject and calculate mean
avg_marks = df.groupby("Subject")["Marks"].mean().reset_index()

print("Average Marks per Subject:")
print(avg_marks)

Average Marks per Subject:
    Subject Marks
0 Computer 69.7
1 English 72.5
2 History 74.5
3 Math 75.2
4 Science 67.4
```



```
toughest = avg_marks.loc[avg_marks["Marks"].idxmin()]
easiest = avg_marks.loc[avg_marks["Marks"].idxmax()]
print(" Toughest Subject:", toughest["Subject"], "with average marks", toughest["Marks"])
```

```
print("☑ Easiest Subject:", easiest["Subject"], "with average marks", easiest["Marks"])

Solution Toughest Subject: Science with average marks 67.4

☑ Easiest Subject: Math with average marks 75.2
```

2)Create a Bar Chart Using Matplotlib

import pandas as pd

```
import matplotlib.pyplot as plt
# Load dataset
df = pd.read_csv("sales_category.csv")
# Display first few rows
print(df.head())
     Category Sales
0 Electronics
               15000
     Clothing
               12000
2
     Groceries
               18000
3
     Furniture
                9000
4
         Toys
                6000
```

