

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

from google.colab import files
uploaded = files.upload()

df = pd.read_excel("Marks_secA.xlsx")

# Extract student names and marks (assuming: name = column B [index 1], marks = column G [index 6])
names = df.iloc[:, 1]
marks = df.iloc[:, 6]

# Calculate percentage based on max marks = 15
percentage = (marks / 15) * 100

gt_75 = []
btw_60_75 = []
lt_60 = []

for i in range(len(percentage)):
    if percentage[i] > 75:
        gt_75.append((names[i], percentage[i]))
    elif 60 <= percentage[i] <= 75:
        btw_60_75.append((names[i], percentage[i]))
    else:
        lt_60.append((names[i], percentage[i]))

print("Students with > 75%:")
for name, p in gt_75:
    print(name, "-", round(p, 2), "%")

print("\nStudents with 60% - 75%:")
for name, p in btw_60_75:
    print(name, "-", round(p, 2), "%")

print("\nStudents with < 60%:")
for name, p in lt_60:
    print(name, "-", round(p, 2), "%")

plt.figure(figsize=(10, 5))

plt.hist([p for name, p in gt_75], bins=range(0, 101, 5), color='green', edgecolor='black', alpha=0.7, label='> 75%')
plt.hist([p for name, p in btw_60_75], bins=range(0, 101, 5), color='orange', edgecolor='black', alpha=0.7, label='60% - 75%')
plt.hist([p for name, p in lt_60], bins=range(0, 101, 5), color='red', edgecolor='black', alpha=0.7, label='< 60%')

plt.title("Histogram Plot")
plt.xlabel("Percentage")
plt.ylabel("Number of Students")
plt.legend(loc='upper right')
plt.grid(True)
plt.show()

plt.figure(figsize=(10, 5))

plt.scatter([i for i, (name, p) in enumerate(gt_75)], [p for name, p in gt_75], color='green', label='> 75%', alpha=0.7)
plt.scatter([i for i, (name, p) in enumerate(btw_60_75)], [p for name, p in btw_60_75], color='orange', label='60% - 75%', alpha=0.7)
plt.scatter([i for i, (name, p) in enumerate(lt_60)], [p for name, p in lt_60], color='red', label='< 60%', alpha=0.7)

plt.title("Scatter Plot")
plt.xlabel("Students")
plt.ylabel("Percentage")
plt.legend(loc='upper right')
plt.grid(True)
plt.show()
```

[Choose Files](#) Marks_secA.xlsx

- **Marks_secA.xlsx**(application/vnd.openxmlformats-officedocument.spreadsheetml.sheet) - 2803560 bytes, last modified: 5/5/2025 - 100% done

Saving Marks_secA.xlsx to Marks_secA (2).xlsx

Students with > 75%:

DIPALI SINGH - 80.0 %
ABHIJEET RAI - 93.33 %
DAKSH CHAUDHARY - 79.33 %
AAKIL - 93.33 %
ARJUN AGRAWAL - 100.0 %
AKARSHI SRIVASTAVA - 88.0 %
AYUSH - 93.33 %
ANIKET RAI - 100.0 %
ADITYA SHARMA - 85.33 %
HARIOM DHAR DUBEY - 80.0 %
ANISH KUMAR - 86.67 %
AMAN GARG - 80.0 %
DEVANSH BHARADWAJ - 86.67 %
ABHIJAY MAURYA - 86.0 %
ADITYA KIRAN SHUKLA - 80.0 %
AMRIT RAJ - 100.0 %
GAUTAM MISHRA - 100.0 %
DEVARSHI TRIPATHI - 80.0 %
ANANYA KARNWAL - 100.0 %
GAURAV SHUKLA - 100.0 %
FAIQUA NAEEM - 94.0 %

Students with 60% - 75%:

ABHISHEK TYAGI - 73.33 %
AARUSH BAJPAI - 60.0 %
ARYAN DUBEY - 66.67 %
ASNA ALI - 66.67 %
ABHAY PRATAP SINGH - 73.33 %
ARYAN MISHRA - 73.33 %
ANUBHAV MITTAL - 66.67 %
AKASH KUMAR - 66.67 %
DEEP KUMAR CHATURVEDI - 66.67 %
DHRUV CHAUDHARY - 60.0 %
DIVYANSHI GOEL - 66.67 %
ADITI - 66.67 %
AVANTIKA KAUSHIK - 60.0 %
ADITYA MALIK - 60.0 %
ANANYA BARANWAL - 66.67 %

Students with < 60%:

ADITYA SINGH - 53.33 %
ARNAV TIWARI - 20.0 %
DAKSH CHOUDHARY - 27.73 %
ABHINAV MALIK - 59.33 %
ABHAY - 46.67 %
DHIRENDRA YADAV - 26.67 %
AAHAN TYAGI - 26.67 %
ARNAV SANGAL - 40.0 %
AMAN KUMAR - 46.67 %
DILIP YADAV - 33.33 %
ABHINAV GAUTAM - 37.33 %
AMAN RAJ - 31.33 %
GAURAV SAINI - 46.67 %
AYUSH KUMAR - 40.0 %
AYUSH RAJ - 26.67 %
CHIRAG GUMBER - 40.67 %
DIVYANSH TIWARI - 48.0 %
ANMOL MADHESHIYA - 46.67 %
ABHISHEK PATEL - 46.67 %
FARHAN SAIFI - 53.33 %
ADITYA MAURYA - 40.0 %
ANANT AGARWAL - 53.87 %
ADITYA SHARMA - 20.0 %
HARSH ANAND - 34.0 %
AASTHA SHARMA - 40.0 %
ADITI VASHISHTH - 40.0 %
AVINASH MISHRA - 46.67 %
ABHISHEK CHAUDHARY - 40.0 %
Avni Gupta - 40.0 %
ANSHIKA CHAURASIA - 46.67 %
AKASHDEEP CHAUHAN - 40.0 %
AJMUNI BHARDWAJ - 40.0 %
ANSHIKA RATHI - 54.13 %
ABHIGYAN PATEL - 20.0 %
ABHAY SHUKLA - 46.67 %
DIIIVYANSHU MAURYA - 48.0 %

