```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
# Read the Excel file (replace 'filename.xlsx' with your actual file name)
df = pd.read_excel("Marks_secC.xlsx")
# print(df)
# Add a percentage column
df['Percentage'] = (df['marks'] / 15) * 100
var ='name','library id','marks','percentage'
# Categorize students
above_{75} = df.var
between_60_75 = df[(df['Percentage'] >= 60) & (df['Percentage'] <= 75)].var
below_60 = df[df['Percentage'] < 60].var</pre>
# Print categories
print("Students with >75% marks:\n", above_75, "\n")
print("Students with 60%-75% marks:\n", between_60_75, "\n")
print("Students with <60% marks:\n", below_60, "\n")</pre>
# Histogram Plot
plt.figure(figsize=(10, 5))
plt.hist(df['Percentage'], bins=np.arange(0, 105, 5), edgecolor='black', color='blue')
plt.xlabel("Percentage")
plt.ylabel("Number of Students")
plt.title("Histogram Plot")
plt.grid(True)
plt.show()
# Scatter Plot
plt.figure(figsize=(10, 5))
plt.scatter(df['name'], df['Percentage'], color='blue', edgecolors='black')
plt.xticks(rotation=90)
plt.xlabel("Students")
plt.ylabel("Percentage")
plt.title("Scatter Plot")
plt.grid(True)
plt.tight_layout()
plt.show()
```

```
→ Students with >75% marks:
     <bound method DataFrame.var of</pre>
                                                                                                    email \
                                             lib id
       2428ECE1110
                             SHIKHA SINGH
                                             shikha.2428ece1110@kiet.edu
        2428ECE1733
                            UJJWAL MISHRA
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        2428ECE1761
                             SUMIT SINGH
                                               sumit.2428ece1761@kiet.edu
        2428ECE2490 SUKHVEER SINGH YADAV
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    3
    4
         2428ECE968
                              SHIVA YADAV
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    62 2428ECE1034
                            SIDDHI KUMARI
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        2428ECE1797
                            SHREYA SHUKLA
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    63
        2428ECE2145
                             YASHVI TOMAR
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    64
        2428ECE1012
                            SANDRBH DIXIT
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    65
        2428ECE1328
                              SHIV SHARMA
    66
                                                shiv.2428ece1328@kiet.edu
                                            statuss marks submit?
                                    data
                                                                      Percentage
                session
        2024-2028-ECE-C 10 Apr 15:00:26 Completed
    a
                                                     7.00
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                                                                True
                                                                       86.666667
                                          Completed
                                                     13.00
                                                                True
                                                                       54.000000
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                                          Completed
                                                       8.10
                                                                True
    4
        2024-2028-ECE-C 10 Apr 15:00:37
                                          Completed
                                                       9.00
                                                                True
                                                                       60.000000
        2024-2028-ECE-C 10 Apr 15:06:23
                                           Completed
                                                                       54.000000
        2024-2028-ECE-C 10 Apr 15:06:25
                                          Completed
                                                       5.32
                                                                       35,466667
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                                          Completed
                                                       4.00
                                                                True
                                                                       26.666667
        2024-2028-ECE-C 10 Apr 15:09:57
                                                     2.00
                                                                       13.333333
    65
                                          Completed
                                                                True
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                                          Completed 12.00
                                                                True
                                                                       80.000000
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    Students with 60%-75% marks:
     <bound method DataFrame.var of</pre>
                                             lib id
                                                                                                 email \
        2428FCF1733
                       UJJWAL MISHRA
                                           ujjwal.2428ece1733@kiet.edu
                                             shiva.2428ece968@kiet.edu
         2428ECE968
                           SHIVA YADAV
                         SHUBHAM PATEL
       2428ECE2092
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    30
                           VIVEK KUMAR
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    33
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                       SHREEJA KASHYAP
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        2428FCF1265
    49
         2428FCF733
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       2428ECE1642
                         SHUBH AWASTHI
                                            shubh.2428ece1642@kiet.edu
    51
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                                                                True
        2024-2028-ECE-C 10 Apr 15:00:37
                                                     9.00
                                                                       60.000000
                                          Completed
                                                                True
        2024-2028-ECE-C 10 Apr 15:00:45
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                                          Completed 10.20
    11
                                                                True
        2024-2028-ECE-C 10 Apr 15:00:53
                                          Completed 11.00
                                                                       73.333333
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                                                                True
                                          Completed 10.30
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                                                                True
                                                                       68.666667
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                                          Completed 10.00
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                                                                       66.666667
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                                          Completed 11.00
                                                                True
                                                                       73.333333
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                                                                       61.333333
    Students with <60% marks:
     <bound method DataFrame.var of</pre>
                                             lib id
                                                                      name
                                                                                                    email \
        2428FCF1110
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         2428ECE462
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        2428ECE2405
                            SHWETA BHARTI
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        2428ECE2204
                            SARTHAK GOYAL
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2428ECE461

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rudra.2428ece461@kiet.edu

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60	2428ECE1987	SHILPI KUMARI <u>shilpi.2428ece1987@kiet.edu</u>		
61	2428ECE2402	YASH PANDEY yash.2428ece2402@kiet.edu		
62	2428ECE1034	SIDDHI KUMAR		
63	2428ECE1797	SHREYA SHUKL	•	
64	2428ECE2145	YASHVI TOMA		
65	2428ECE1012	SANDRBH DIXI		
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18	2024-2028-ECE-C	10 Apr 15:00:49		True 54.000000
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22	2024-2028-ECE-C	10 Apr 15:00:52		True 46.66667
23	2024-2028-ECE-C	10 Apr 15:00:53		True 46.666667
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26	2024-2028-ECE-C	10 Apr 15:00:56		True 20.000000
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34	2024-2028-ECE-C	10 Apr 15:01:24		True 46.66667
36	2024-2028-ECE-C	10 Apr 15:01:28	•	True 53.333333
37	2024-2028-ECE-C	10 Apr 15:01:29	•	True 40.000000
38	2024-2028-ECE-C	10 Apr 15:01:30		True 26.66667
39	2024-2028-ECE-C	10 Apr 15:01:32		True 55.333333
42	2024-2028-ECE-C	10 Apr 15:01:53	•	True 14.666667
44	2024-2028-ECE-C	10 Apr 15:01:56	•	True 33.333333
46	2024-2028-ECE-C	10 Apr 15:02:07	•	True 33.333333
47	2024-2028-ECE-C	10 Apr 15:02:15	•	True 26.66667
48	2024-2028-ECE-C	10 Apr 15:02:23		True 40.00000
52	2024-2028-ECE-C	10 Apr 15:02:55	•	True 56.666667
53	2024-2028-ECE-C	10 Apr 15:03:05	•	True 54.666667
55	2024-2028-ECE-C	10 Apr 15:03:16		True 13.333333
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60	2024-2028-ECE-C	10 Apr 15:05:31	•	True 20.000000
61	2024-2028-ECE-C	10 Apr 15:06:17	•	True 42.000000
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63	2024-2028-ECE-C	10 Apr 15:06:25	•	True 35.466667
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65	2024-2028-ECE-C	10 Apr 15:00:57	•	True 13.333333 >
03	2024-2020-ECE-C	10 Whi 13.03:3/	completed 2.00	11 ue 13.333333 >

SHIVAM SINGH

SUMIT YAGYASAINI RUDRA DEV MUDGAL



