⚡ Generate   create a dataframe with 2 columns and 10 rows   🔍   Close

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

# Load Excel file
df = pd.read_excel('/content/Case_Study_5_B.xlsx')  # replace with your file name
print(df.head())  # optional: to view structure

# Assuming columns: 'Name' and 'Marks' (out of 15)
df['Percentage'] = (df['Marks'] / 15) * 100

# Categorizing students
above_75 = df[df['Percentage'] > 75]
between_60_75 = df[(df['Percentage'] >= 60) & (df['Percentage'] <= 75)]
below_60 = df[df['Percentage'] < 60]

print("\nStudents with > 75%:")
print(above_75)

print("\nStudents between 60% and 75%:")
print(between_60_75)

print("\nStudents with < 60%:")
print(below_60)

# Histogram
plt.figure(figsize=(8, 5))
plt.hist(df['Percentage'], bins=range(0, 101, 5), edgecolor='black', color='blue')
plt.title("Histogram Plot")
plt.xlabel("Percentage")
plt.ylabel("Number of Students")
plt.grid(axis='y')
plt.show()

# Scatter Plot
plt.figure(figsize=(8, 5))
plt.scatter(df['Name'], df['Percentage'], color='blue', edgecolor='black')
plt.title("Scatter Plot")
plt.xlabel("Students")
plt.ylabel("Percentage")
plt.xticks(rotation=90)
plt.tight_layout()
plt.show()
```

```
     Member Id                  Name                                Email  \
0   2428ECE1089            HARSH GUPTA      harsh.2428ece1089@kiet.edu
1    2428ECE839     HARSH PRATAP YADAV       harsh.2428ece839@kiet.edu
2   2428ECE1560      HARSH RAJ MISHRA      harsh.2428ece1560@kiet.edu
3    2428EEE433        HARSHIT AWASTHI      harshit.2428eee433@kiet.edu
4    2428ECE449         HARSHIT SAINI      harshit.2428ece449@kiet.edu


            Groups      Start Time      Status   Marks   Passed
0   2024-2028-ECE-B  10 Apr 15:00:41  Completed   10.0    True
1   2024-2028-ECE-B  10 Apr 15:00:39  Completed   11.1    True
2   2024-2028-ECE-B  10 Apr 15:01:09  Completed    6.1    True
3   2024-2028-ECE-B  10 Apr 15:01:41  Completed   11.4    True
4   2024-2028-ECE-B  10 Apr 15:02:41  Completed   10.1    True

Students with > 75%:
      Member Id                     Name                               Email  \
3    2428EEE433          HARSHIT AWASTHI     harshit.2428eee433@kiet.edu
11   2428ECE1710              JYOTI GUPTA      jyoti.2428ece1710@kiet.edu
12   2428EEE435               KANAV GUPTA      kanav.2428eee435@kiet.edu
22    2428ECE825          KRISHNA RASTOGI     krishna.2428ece825@kiet.edu
28   2428ECE2107      KUSHAGRA SRIVASTAVA    kushagra.2428ece2107@kiet.edu
35    2428ECE535              MEHUL GUPTA       mehul.2428ece535@kiet.edu
37   2428ECE2085            MUSKAN SINGH       muskan.2428ece2085@kiet.edu
40   2428ECE1524              NIDHI YADAV       nidhi.2428ece1524@kiet.edu
45    2428ECE828             NITIN PANDEY        nitin.2428ece828@kiet.edu
63   2428ECE2127  PRIYANSHU SINGH KUSHWAHA   priyanshu.2428ece212@kiet.edu
64   2428ECE1115      PUSHKAR SHRIVASTAVA     pushkar.2428ece1115@kiet.edu
68   2428ECE1956              RAHUL YADAV       rahul.2428ece1956@kiet.edu
70   2428ECE2017            RAM JI TRIVEDI         ram.2428ece2017@kiet.edu


            Groups      Start Time      Status   Marks   Passed   Percentage
3   2024-2028-ECE-B  10 Apr 15:01:41  Completed   11.4    True     76.000000
11  2024-2028-ECE-B  10 Apr 15:01:04  Completed   14.0    True     93.333333
12  2024-2028-ECE-B  10 Apr 15:44:41  Completed   15.0    True    100.000000
22  2024-2028-ECE-B  10 Apr 15:02:04  Completed   13.2    True     88.000000
28  2024-2028-ECE-B  10 Apr 15:00:30  Completed   12.1    True     80.666667
35  2024-2028-ECE-B  10 Apr 15:01:32  Completed   12.0    True     80.000000
37  2024-2028-ECE-B  10 Apr 15:00:23  Completed   15.0    True    100.000000
40  2024-2028-ECE-B  10 Apr 15:00:33  Completed   14.0    True     93.333333
45  2024-2028-ECE-B  10 Apr 15:00:41  Completed   12.0    True     80.000000
63  2024-2028-ECE-B  10 Apr 15:00:46  Completed   14.0    True     93.333333
64  2024-2028-ECE-B  10 Apr 15:00:48  Completed   15.0    True    100.000000
68  2024-2028-ECE-B  10 Apr 15:00:39  Completed   13.0    True     86.666667
70  2024-2028-ECE-B  10 Apr 15:01:19  Completed   15.0    True    100.000000

Students between 60% and 75%:
      Member Id                  Name                                Email  \
0   2428ECE1089            HARSH GUPTA      harsh.2428ece1089@kiet.edu
1    2428ECE839     HARSH PRATAP YADAV       harsh.2428ece839@kiet.edu
4    2428ECE449         HARSHIT SAINI      harshit.2428ece449@kiet.edu
5    2428ECE930     HARSHIT SRIVASTAV      harshit.2428ece930@kiet.edu
6    2428ECE450         HARSHIT TYAGI      harshit.2428ece450@kiet.edu
7   2428ECE1861       HIMANSHU JAISWAL    himanshu.2428ece1861@kiet.edu
10  2428ECE1890            JANAK SINGH       janak.2428ece1890@kiet.edu
16   2428ECE451         KARTIK BANSAL      kartik.2428ece451@kiet.edu
18   2428ECE452         KAVISH DAHIYA      kavish.2428ece452@kiet.edu
```

20	2428ECE1602	KESHAV MAHESHWARI	keshav.2428ece1602@kiet.edu
24	2428ECE453	KRITIKA TYAGI	kritika.2428ece453@kiet.edu
30	2428ECE840	LOKENDRA	lokendra.2428ece840@kiet.edu
44	2428ECE1703	NIMISHA AGRAWAL	nimisha.2428ece1703@kiet.edu
46	2428ECE2123	NITYA	nitya.2428ece2123@kiet.edu
50	2428ECE2337	OM DUBEY	om.2428ece2337@kiet.edu
51	2428ECE1849	PARI GARG	pari.2428ece1849@kiet.edu
53	2428ECE2329	PIYUSH KUMAR SINGH	piyush.2428ece2329@kiet.edu
54	2428ECE2344	PRAHLAD KUMAR	prahlad.2428ece2344@kiet.edu
55	2428ECE790	PRANAV SOM	pranav.2428ece790@kiet.edu
60	2428ECE1038	PRINCE KATIYAR	prince.2428ece1038@kiet.edu
69	2428ECE1757	RAM	ram.2428ece1757@kiet.edu
72	2428ECE2496	RISHABH KUMAR YADAV	rishabh.2428ece2496@kiet.edu

	Groups	Start Time	Status	Marks	Passed	Percentage
0	2024-2028-ECE-B	10 Apr 15:00:41	Completed	10.00	True	66.666667
1	2024-2028-ECE-B	10 Apr 15:00:39	Completed	11.10	True	74.000000
4	2024-2028-ECE-B	10 Apr 15:02:41	Completed	10.10	True	67.333333
5	2024-2028-ECE-B	10 Apr 15:00:52	Completed	9.00	True	60.000000
6	2024-2028-ECE-B	10 Apr 15:01:23	Completed	9.00	True	60.000000
7	2024-2028-ECE-B	10 Apr 15:01:04	Completed	10.10	True	67.333333
10	2024-2028-ECE-B	10 Apr 15:00:33	Completed	9.00	True	60.000000
16	2024-2028-ECE-B	10 Apr 15:01:31	Completed	10.00	True	66.666667
18	2024-2028-ECE-B	10 Apr 15:03:12	Completed	9.10	True	60.666667
20	2024-2028-ECE-B	10 Apr 15:01:20	Completed	9.00	True	60.000000
24	2024-2028-ECE-B	10 Apr 15:07:18	Completed	10.00	True	66.666667
30	2024-2028-ECE-B	10 Apr 15:00:25	Completed	9.12	True	60.800000
44	2024-2028-ECE-B	10 Apr 15:00:54	Completed	9.80	True	65.333333
46	2024-2028-ECE-B	10 Apr 15:02:52	Completed	10.12	True	67.466667
50	2024-2028-ECE-B	10 Apr 15:00:31	Completed	9.20	True	61.333333
51	2024-2028-ECE-B	10 Apr 15:03:15	Completed	11.00	True	73.333333
53	2024-2028-ECE-B	10 Apr 15:00:33	Completed	10.20	True	68.000000
54	2024-2028-ECE-B	10 Apr 15:00:54	Completed	10.00	True	66.666667
55	2024-2028-ECE-B	10 Apr 15:01:02	Completed	11.12	True	74.133333
60	2024-2028-ECE-B	10 Apr 15:00:47	Completed	9.00	True	60.000000
69	2024-2028-ECE-B	10 Apr 15:00:49	Completed	10.00	True	66.666667
72	2024-2028-ECE-B	10 Apr 15:00:51	Completed	11.10	True	74.000000

Students with < 60%:

	Member Id	Name	Email	\
2	2428ECE1560	HARSH RAJ MISHRA	harsh.2428ece1560@kiet.edu	
8	2428ECE2506	HIMANSHU MISHRA	himanshu.2428ece2506@kiet.edu	
9	2428ECE1188	HONOURS BHADAURIA	honours.2428ece1188@kiet.edu	
13	2428ECE1721	KANISHKA BHARDWAJ	kanishka.2428ece1721@kiet.edu	
14	2428ECE1571	KARNVEER DIXIT	karnveer.2428ece1571@kiet.edu	
15	2428ECE1734	KARTIK	kartik.2428ece1734@kiet.edu	
17	2327ec1196	Kartikey singh	kartikey.2327ec1196@kiet.edu	
19	2428ME2462	KESHAV KISHORE	keshav.2428me2462@kiet.edu	
21	2428ECE1453	KRISHNA KUMAR	krishna.2428ece1453@kiet.edu	
23	2428ECE1442	KRITIKA SINGH	kritika.2428ece1442@kiet.edu	
25	2428ECE912	KUNAL SINGH THAKUR	kunal.2428ece912@kiet.edu	
26	2428ECE986	KUNDAN KUMAR YADAV	kundan.2428ece986@kiet.edu	
27	2428ECE858	KUNWAR SINGH	kunwar.2428ece858@kiet.edu	
29	2428ECE2573	LALIT SINGH	lalit.2428ece2573@kiet.edu	
31	2428ECE1838	MAHI KUMARI	mahi.2428ece1838@kiet.edu	
32	2428ECE2401	MAYANK KUMAR	mayank.2428ece2401@kiet.edu	
33	2428ECE854	MAYANK TYAGI	mayank.2428ece854@kiet.edu	

| 33 | 2428ECE894 | MAYANK TYAGI | mayank.2428ece894@kiet.edu |
34	2428EEE775	MEHAK SAINI	mehak.2428eee775@kiet.edu
36	2428ECE1578	MRITUNJAY KUMAR JHA	mritunjay.2428ece157@kiet.edu
38	2428ECE471	NANDINI TYAGI	nandini.2428ece471@kiet.edu
39	2428ECE1655	NAVNEET PATHAK	navneet.2428ece1655@kiet.edu
41	2428ECE1859	NIHARIKA CHAURASIA	niharika.2428ece1859@kiet.edu
42	2428ECE2100	NIKHIL PARIHAR	nikhil.2428ece2100@kiet.edu
43	2428ECE2513	NILESH KUMAR YADAV	nilesh.2428ece2513@kiet.edu
47	2428ECE1498	NUMAN AHMAD	numan.2428ece1498@kiet.edu
48	2428ECE763	OJAS AGARWAL	ojas.2428ece763@kiet.edu
49	2428ECE1410	OJASV MISHRA	ojasv.2428ece1410@kiet.edu
52	2428ECE1709	PARI GUPTA	pari.2428ece1709@kiet.edu
56	2428ECE2121	PRASOON KUMAR	prasoon.2428ece2121@kiet.edu
57	2428ECE1409	PRATEEK SINGH	prateek.2428ece1409@kiet.edu
58	2428ECE1768	PRATIBHA SINGH	pratibha.2428ece1768@kiet.edu
59	2428ECE1669	PRATYAKSH VARSHNEY	pratyaksh.2428ece166@kiet.edu
61	2428ECE2287	PRIYANSHU DESHWAL	priyanshu.2428ece228@kiet.edu
62	2428ECE1705	PRIYANSHU SAHU	priyanshu.2428ece170@kiet.edu
65	2428ECE2446	RACHIT GAUTAM	rachit.2428ece2446@kiet.edu
66	2428ECE1913	RAGHAV KUMAR	raghav.2428ece1913@kiet.edu
67	2428ECE1745	RAGHAV PATHAK	raghav.2428ece1745@kiet.edu
71	2428ECE2659	Rihan	rihan.2428ece2659@kiet.edu

	Groups	Start Time	Status	Marks	Passed	Percentage
2	2024-2028-ECE-B	10 Apr 15:01:09	Completed	6.10	True	40.666667
8	2024-2028-ECE-B	10 Apr 15:00:24	Completed	8.40	True	56.000000
9	2024-2028-ECE-B	10 Apr 15:00:47	Completed	8.00	True	53.333333
13	2024-2028-ECE-B	10 Apr 15:00:42	Completed	5.00	True	33.333333
14	2024-2028-ECE-B	10 Apr 15:07:54	Completed	8.00	True	53.333333
15	2024-2028-ECE-B	10 Apr 15:01:57	Completed	7.10	True	47.333333
17	2024-2028-ECE-B	10 Apr 15:00:41	Completed	3.10	True	20.666667
19	2024-2028-ECE-B	10 Apr 15:06:34	Completed	3.00	True	20.000000
21	2024-2028-ECE-B	10 Apr 15:01:43	Completed	4.00	True	26.666667
23	2024-2028-ECE-B	10 Apr 15:00:34	Completed	4.00	True	26.666667
25	2024-2028-ECE-B	10 Apr 15:00:35	Completed	3.00	True	20.000000
26	2024-2028-ECE-B	10 Apr 15:00:37	Completed	3.00	True	20.000000
27	2024-2028-ECE-B	10 Apr 15:00:39	Completed	6.06	True	40.400000
29	2024-2028-ECE-B	10 Apr 15:01:22	Completed	3.00	True	20.000000
31	2024-2028-ECE-B	10 Apr 15:05:13	Completed	8.20	True	54.666667
32	2024-2028-ECE-B	10 Apr 15:00:27	Completed	6.00	True	40.000000
33	2024-2028-ECE-B	10 Apr 15:00:37	Completed	2.60	True	17.333333
34	2024-2028-ECE-B	10 Apr 15:01:01	Completed	6.04	True	40.266667
36	2024-2028-ECE-B	10 Apr 15:01:30	Completed	4.10	True	27.333333
38	2024-2028-ECE-B	10 Apr 15:00:52	Completed	5.10	True	34.000000
39	2024-2028-ECE-B	10 Apr 15:01:46	Completed	7.20	True	48.000000
41	2024-2028-ECE-B	10 Apr 15:00:43	Completed	3.00	True	20.000000
42	2024-2028-ECE-B	10 Apr 15:05:46	Completed	5.00	True	33.333333
43	2024-2028-ECE-B	10 Apr 15:00:50	Completed	5.00	True	33.333333
47	2024-2028-ECE-B	10 Apr 15:00:49	Completed	4.00	True	26.666667
48	2024-2028-ECE-B	10 Apr 15:01:24	Completed	8.00	True	53.333333
49	2024-2028-ECE-B	10 Apr 15:07:42	Completed	6.00	True	40.000000
52	2024-2028-ECE-B	10 Apr 15:00:37	Completed	5.10	True	34.000000
56	2024-2028-ECE-B	10 Apr 15:00:39	Completed	3.00	True	20.000000
57	2024-2028-ECE-B	10 Apr 15:00:33	Completed	3.10	True	20.666667
58	2024-2028-ECE-B	10 Apr 15:00:56	Completed	1.40	True	9.333333
59	2024-2028-ECE-B	10 Apr 15:00:46	Completed	7.20	True	48.000000
61	2024-2028-ECE-B	10 Apr 15:00:47	Completed	7.00	True	46.666667

62	2024-2028-ECE-B	10 Apr 15:00:45	Completed	6.00	True	40.000000
65	2024-2028-ECE-B	10 Apr 15:00:34	Completed	7.48	True	49.866667
66	2024-2028-ECE-B	10 Apr 15:01:01	Completed	4.00	True	26.666667
67	2024-2028-ECE-B	10 Apr 15:00:50	Completed	6.74	True	44.933333
71	2024-2028-ECE-B	10 Apr 15:00:37	Completed	6.80	True	45.333333

Histogram Plot
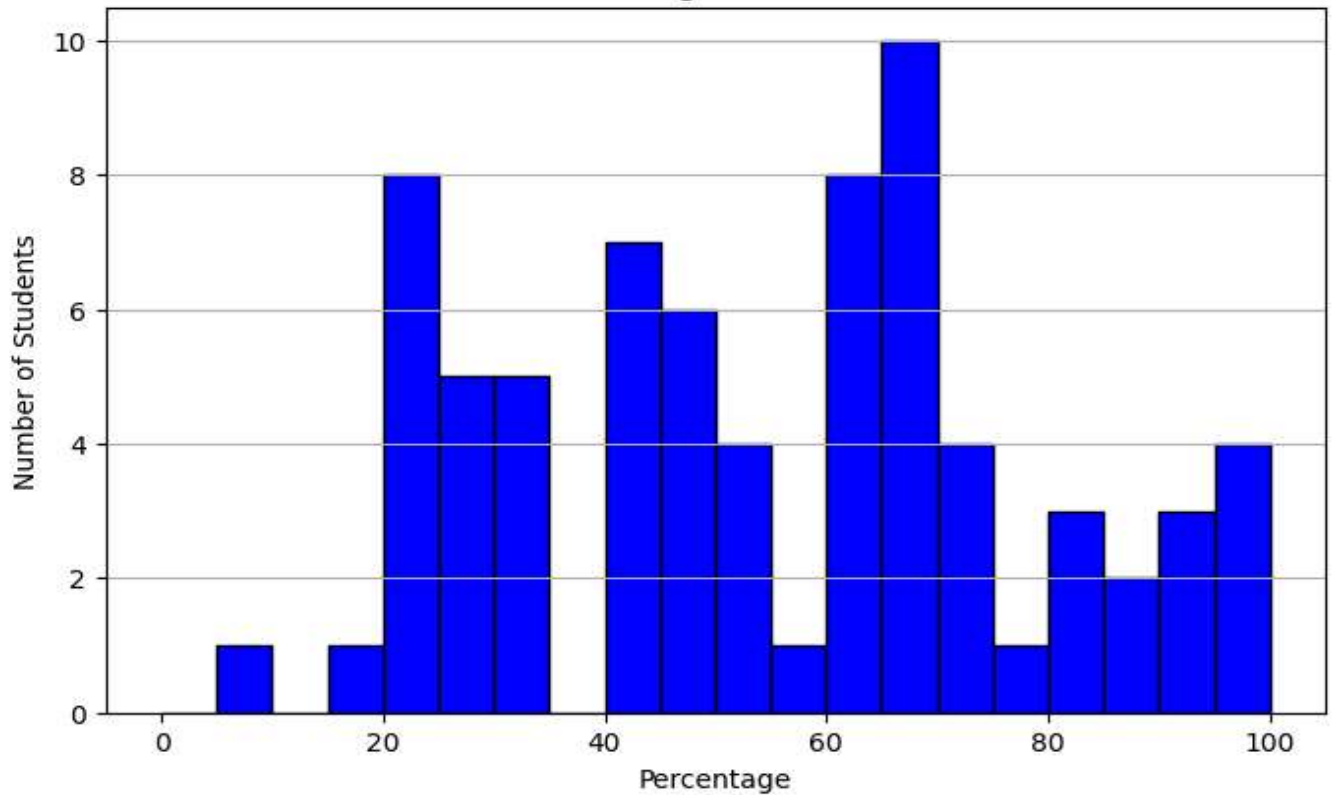
Scatter Plot
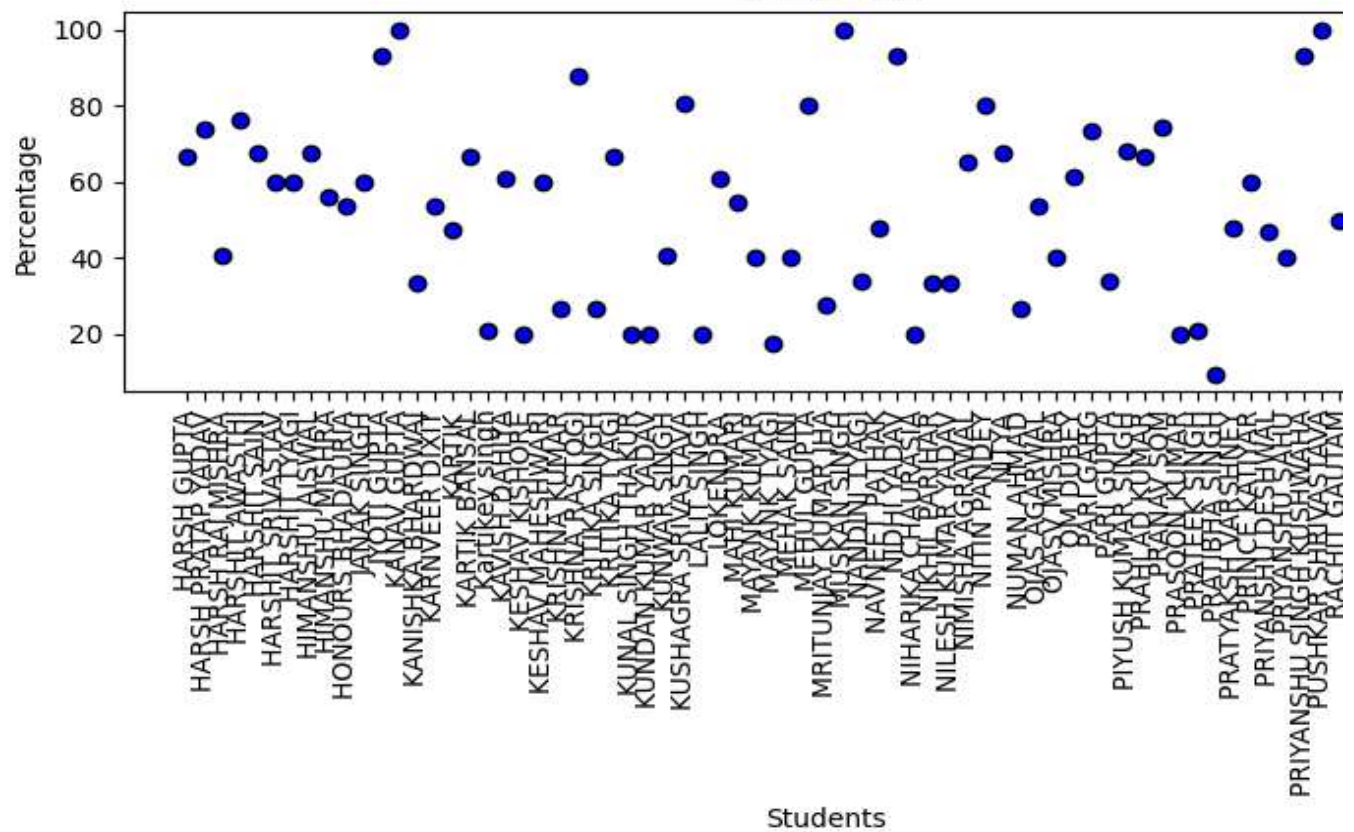
Start coding or generate with AI.