```
In [4]:
          import pandas as pd
          import matplotlib.pyplot as plt
          df = pd.read_csv("class_marks.csv")
In [5]: DF=df.sort_values("Total",ascending=True)
Out[5]:
             Total Q1aM4 Q1bM6 Q2aM6 Q2bM4 Q3aM5 Q3bM5 Q4aM3 Q4bM7 Q5M1
         69
                 3
                        1.0
                                         1.0
                               NaN
                                                NaN
                                                         NaN
                                                                 NaN
                                                                           1.0
                                                                                   NaN
                                                                                           Na
                                                 3.0
         11
                        2.0
                                2.0
                                       NaN
                                                          1.0
                                                                 NaN
                                                                          NaN
                                                                                   NaN
                                                                                           Na
                9
         23
                        4.0
                                3.0
                                       NaN
                                                NaN
                                                         NaN
                                                                 NaN
                                                                          NaN
                                                                                   NaN
                                                                                           Na
         22
                14
                        4.0
                                4.0
                                         5.0
                                                 2.0
                                                         NaN
                                                                 NaN
                                                                          NaN
                                                                                   NaN
                                                                                           Na
         57
               17
                        3.0
                               NaN
                                       NaN
                                                 4.0
                                                         NaN
                                                                 NaN
                                                                           3.0
                                                                                    7.0
                                                                                           Na
         73
               40
                        4.0
                                6.0
                                       NaN
                                                NaN
                                                          5.0
                                                                   5.0
                                                                           3.0
                                                                                   NaN
                                                                                            10.
         53
               40
                        4.0
                                6.0
                                         6.0
                                                 4.0
                                                          5.0
                                                                   5.0
                                                                          NaN
                                                                                   NaN
                                                                                            10.
         51
               40
                        0.0
                               NaN
                                         6.0
                                                 4.0
                                                         NaN
                                                                 NaN
                                                                           3.0
                                                                                    7.0
                                                                                            10.
         33
               40
                      NaN
                               NaN
                                                 4.0
                                                          5.0
                                                                   5.0
                                                                           3.0
                                                                                    7.0
                                                                                           Na
         65
               40
                        4.0
                                6.0
                                         6.0
                                                 4.0
                                                          5.0
                                                                   5.0
                                                                          NaN
                                                                                   NaN
                                                                                            10.
        86 rows × 12 columns
```

#### TOTAL values are sorted in ascending order above.

```
In [9]: DF['Q1']=DF["Q1aM4"]+DF["Q1bM6"]
    DF['Q2']=DF['Q2aM6']+DF['Q2bM4']
    DF['Q3']=DF['Q3aM5']+DF['Q3bM5']
    DF['Q4']=DF['Q4aM3']+DF['Q4bM7']
    DF['Q6']=DF['Q6aM4']+DF['Q6bM6']
    DF
```

Out[9]:		Total	Q1aM4	Q1bM6	Q2aM6	Q2bM4	Q3aM5	Q3bM5	Q4aM3	Q4bM7	Q5M1
	69	3	1.0	NaN	1.0	NaN	NaN	NaN	1.0	NaN	Na
	11	8	2.0	2.0	NaN	3.0	1.0	NaN	NaN	NaN	Na
	23	9	4.0	3.0	NaN	NaN	NaN	NaN	NaN	NaN	Na
	22	14	4.0	4.0	5.0	2.0	NaN	NaN	NaN	NaN	Na
	57	17	3.0	NaN	NaN	4.0	NaN	NaN	3.0	7.0	Na
	•••										
	73	40	4.0	6.0	NaN	NaN	5.0	5.0	3.0	NaN	10.
	53	40	4.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN	10.
	51	40	0.0	NaN	6.0	4.0	NaN	NaN	3.0	7.0	10.
	33	40	NaN	NaN	6.0	4.0	5.0	5.0	3.0	7.0	Na
	65	40	4.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN	10.

86 rows × 17 columns

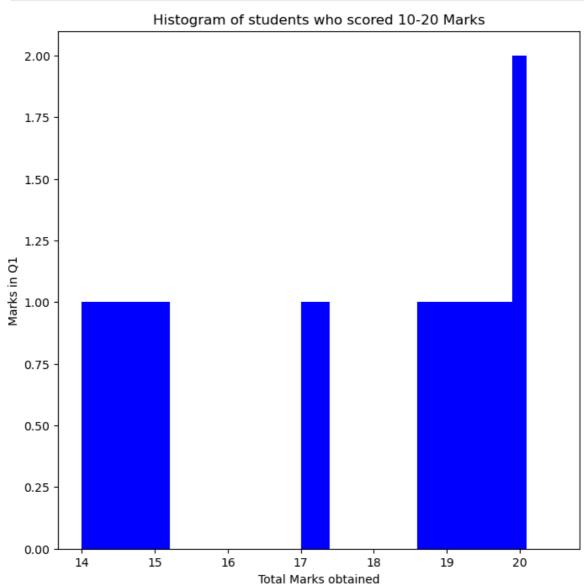
## New Columns Q1,Q2,Q3,Q4,Q5,Q6 are created above to do analysis.

```
In [12]: a=DF.loc[(DF['Total'] >= 10) & (DF['Total'] <= 20)]
    a=a.reset_index()
    a</pre>
```

	a	a											
Out[12]:		index	Total	Q1aM4	Q1bM6	Q2aM6	Q2bM4	Q3aM5	Q3bM5	Q4aM3	Q4bM7		
	0	22	14	4.0	4.0	5.0	2.0	NaN	NaN	NaN	NaN		
	1	57	17	3.0	NaN	NaN	4.0	NaN	NaN	3.0	7.0		
	2	76	17	2.0	3.0	4.0	2.0	4.0	2.0	NaN	NaN		
	3	63	18	4.0	NaN	4.0	2.0	NaN	NaN	NaN	NaN		
	4	34	19	2.0	3.0	3.0	1.0	2.0	3.0	NaN	NaN		
	5	68	20	4.0	6.0	6.0	4.0	NaN	NaN	NaN	NaN		
	6	5	20	4.0	6.0	6.0	4.0	NaN	NaN	NaN	NaN		
	7	60	20	2.0	5.0	3.0	2.0	NaN	NaN	NaN	NaN		
	8	30	20	4.0	4.0	4.0	4.0	5.0	NaN	NaN	NaN		
	4										•		

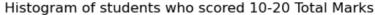
#### Total marks 10-20 is filtered above

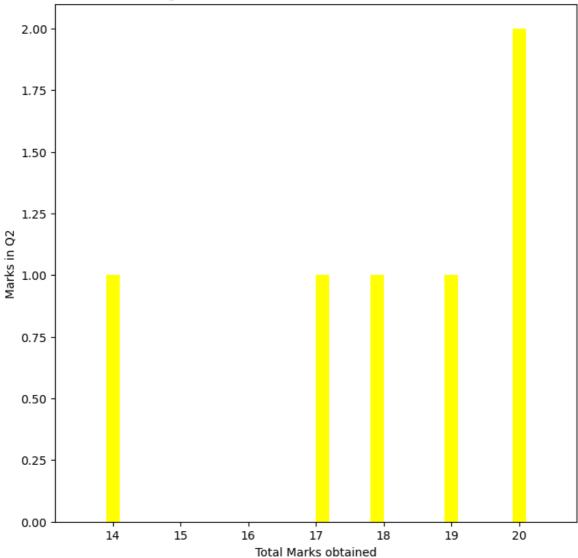
```
In [15]: a1=a.groupby('Q1')['Total']
    a1.hist(color = 'blue',figsize=[8,8],grid=False,bins=5)
    plt.title("Histogram of students who scored 10-20 Marks")
    plt.xlabel("Total Marks obtained")
    plt.ylabel("Marks in Q1")
    plt.show()
```



# Most of the students scored 1 mark and maximum mark is 2, implying that all the students in this range secured very less marks in Q1

```
In [17]: a2=a.groupby('Q2')['Total']
    a2.hist(color='yellow',figsize=[8,8],grid=False,bins=5)
    plt.title("Histogram of students who scored 10-20 Total Marks")
    plt.xlabel("Total Marks obtained")
    plt.ylabel("Marks in Q2")
    plt.show()
```

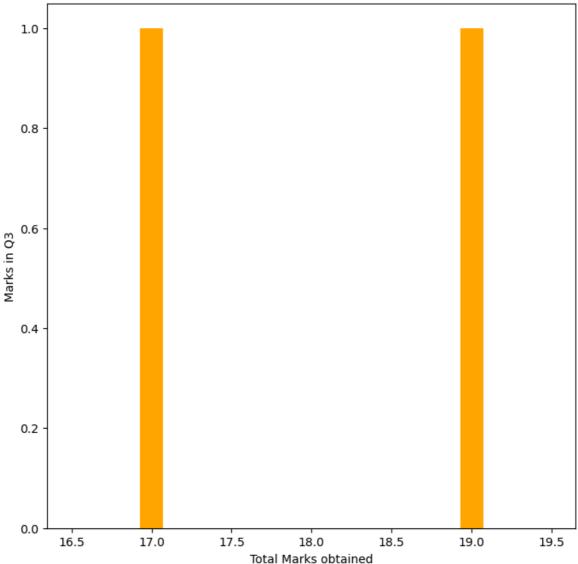




## Very few students got high marks in Q2 and that's only 2, so overall performance in Q2 is not upto the mark

```
In [19]: a3=a.groupby('Q3')['Total']
    a3.hist(color='orange',figsize=[8,8],grid=False,bins=7)
    plt.title("Histogram of students who scored 10-20 Total Marks")
    plt.xlabel("Total Marks obtained")
    plt.ylabel("Marks in Q3")
    plt.show()
```

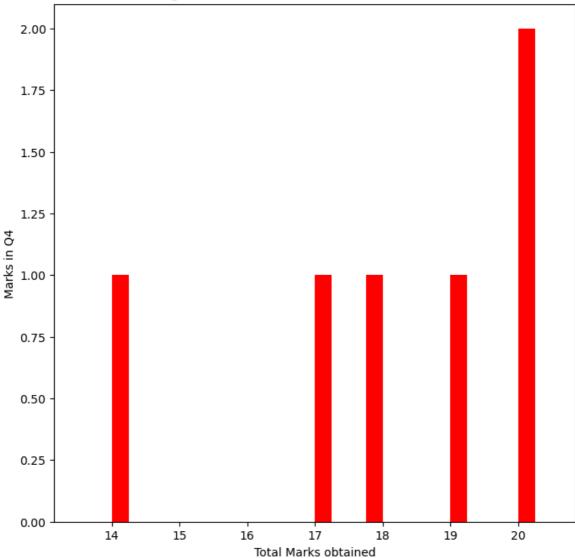




## Only one student got 3 marks whereas others scored below 2 marks, implying very less marks are secured in Q3 overall

```
In [21]: a4=a.groupby('Q4')['Total']
    a2.hist(color='red',figsize=[8,8],grid=False,bins=4)
    plt.title("Histogram of students who scored 1-20 Total Marks")
    plt.xlabel("Total Marks obtained")
    plt.ylabel("Marks in Q4")
    plt.show()
```

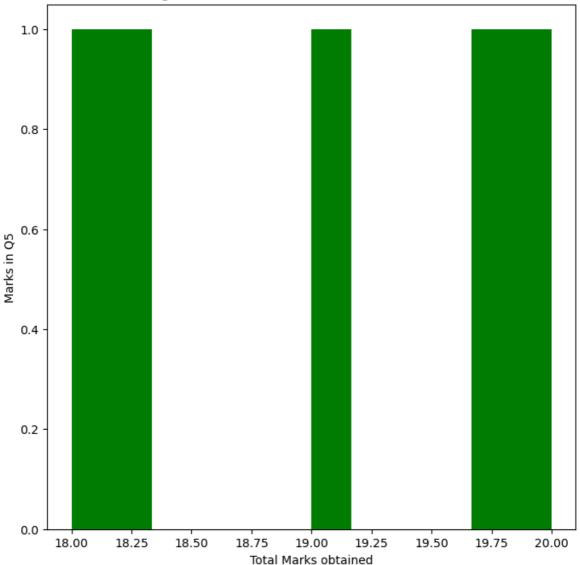




## Many of these students who attempted Q4 got less marks and maximum mark is also just two only

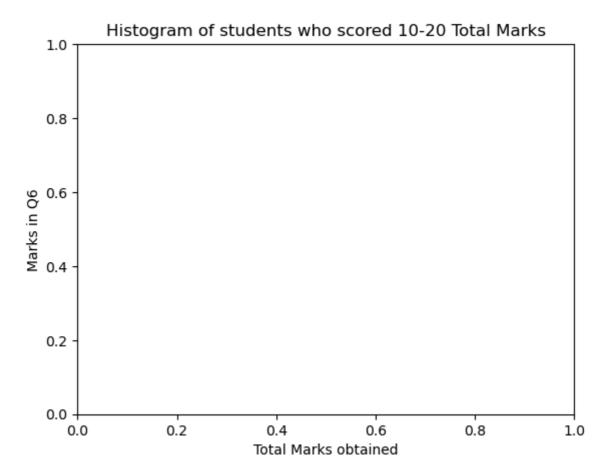
```
In [148... a5=a.groupby('Q5M10')['Total']
    a5.hist(color='green',figsize=[8,8],grid=False,bins=6)
    plt.title("Histogram of students who scored 10-20 Total Marks")
    plt.xlabel("Total Marks obtained")
    plt.ylabel("Marks in Q5")
    plt.show()
```





## Majority of these students who attempted Q5 got less marks and maximum mark is also just three only

```
In [25]: a6=a.groupby('Q6')['Total']
    a6.hist(color='red',figsize=[8,8],grid=False,bins=8)
    plt.title("Histogram of students who scored 10-20 Total Marks")
    plt.xlabel("Total Marks obtained")
    plt.ylabel("Marks in Q6")
    plt.show()
```



The maximum mark scored in this question is 4 marks, meaning the performance of students in this range remains bad as well.

```
In [28]: b=DF.loc[(DF['Total'] >= 20) & (DF['Total'] <= 30)]
    b=b.reset_index()
    b</pre>
```

Out[28]: index Total Q1aM4 Q1bM6 Q2aM6 Q2bM4 Q3aM5 Q3bM5 Q4aM3 Q4bM7 0 68 20 4.0 6.0 6.0 4.0 NaN NaN NaN NaN 1 5 20 4.0 6.0 6.0 4.0 NaN NaN NaN NaN 2 60 20 2.0 5.0 3.0 2.0 NaN NaN NaN NaN 3 30 20 4.0 4.0 4.0 4.0 5.0 NaN NaN NaN 4 54 2.0 6.0 NaN NaN 5.0 5.0 3.0 NaN 21 5 75 4.0 6.0 1.0 1.0 1.0 NaN 21 NaN NaN 6 77 22 4.0 5.0 NaN 3.0 2.0 2.0 NaN NaN 7 39 22 2.0 1.0 3.0 NaN 3.0 NaN 3.0 NaN 8 25 22 4.0 2.0 5.0 2.0 4.0 3.0 2.0 NaN 9 5.0 61 24 4.0 6.0 4.0 NaN 5.0 NaN NaN 10 3.0 2.0 18 24 3.0 5.0 3.0 NaN NaN 1.0 5.0 11 50 24 4.0 NaN NaN 5.0 5.0 NaN NaN 12 6.0 3 24 4.0 6.0 3.0 2.0 2.0 NaN NaN 72 7.0 13 25 2.0 NaN 4.0 4.0 NaN 5.0 3.0 14 48 25 2.0 6.0 NaN NaN NaN NaN 3.0 6.0 15 6 25 3.0 4.0 NaN 2.0 5.0 5.0 NaN NaN 16 74 25 1.0 5.0 6.0 4.0 NaN NaN NaN NaN 17 41 26 2.0 3.0 4.0 3.0 4.0 3.0 NaN 3.0 18 6.0 2.0 2.0 1.0 19 26 3.0 NaN 4.0 NaN 2.0 19 31 26 3.0 4.0 6.0 2.0 NaN 1.0 NaN 20 8 27 3.0 5.0 5.0 NaN NaN NaN NaN NaN 2.0 21 79 27 2.0 6.0 NaN 3.0 5.0 NaN NaN 22 7.0 29 27 4.0 NaN 6.0 1.0 NaN NaN NaN 5.0 23 82 27 2.0 2.0 3.0 NaN NaN NaN NaN 5.0 24 38 28 4.0 5.0 6.0 4.0 3.0 1.0 NaN 25 67 28 4.0 6.0 4.0 4.0 NaN NaN NaN NaN 26 84 28 4.0 NaN 5.0 4.0 5.0 4.0 NaN NaN 27 40 29 4.0 6.0 6.0 4.0 NaN NaN 1.0 1.0 28 20 29 2.0 6.0 2.0 2.0 5.0 5.0 NaN NaN 29 52 29 4.0 5.0 4.0 3.0 NaN NaN 3.0 6.0 30 85 29 4.0 6.0 NaN NaN 3.0 5.0 NaN NaN 31 35 30 4.0 6.0 6.0 4.0 NaN 1.0 NaN NaN

32

14

30

4.0

6.0

6.0

2.0

4.0

5.0

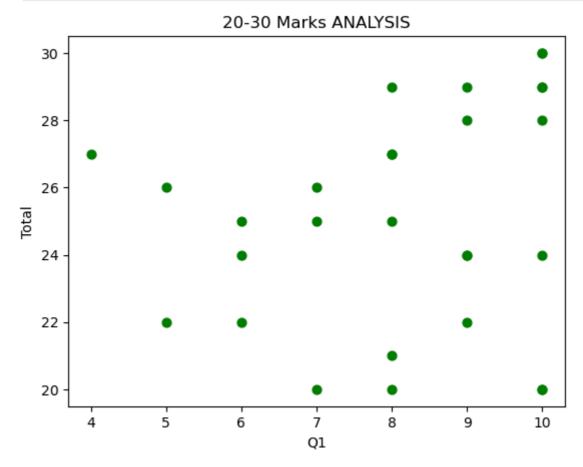
3.0

NaN

	index	Total	Q1aM4	Q1bM6	Q2aM6	Q2bM4	Q3aM5	Q3bM5	Q4aM3	Q4bM7
33	16	30	4.0	NaN	6.0	4.0	5.0	2.0	NaN	NaN

#### Total marks 20-30 is filtered from the data set

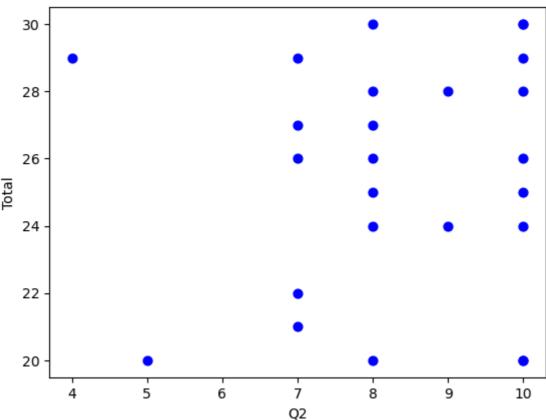
```
In [31]: b.plot.scatter(x='Q1',y='Total',color='green',s=40)
    plt.title("20-30 Marks ANALYSIS")
    plt.show()
```



Majority of the students in this range scored marks between 6-10 in Q1 and very few, just 3 students scored below 5 marks, maximum mark scored is 10 by two students.

```
In [152... b.plot.scatter(x='Q2',y='Total',color='blue',s=40)
    plt.title("20-30 Marks ANALYSIS")
    plt.show()
```

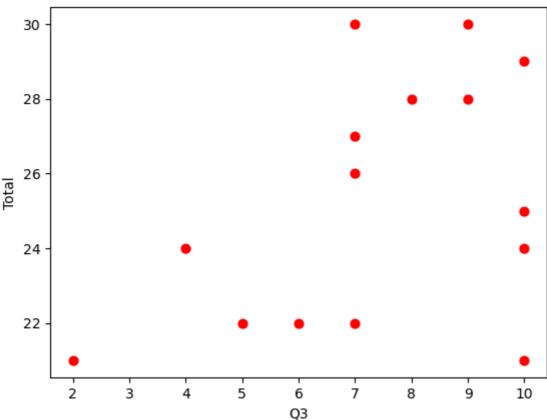




Some students have not attempted this question whereas those who have attempted scored marks between 7 and 10 overall. Maximum mark is 10 scored by three students.

```
In [33]: b.plot.scatter(x='Q3',y='Total',color='red',s=40)
    plt.title("20-30 Marks ANALYSIS")
    plt.show()
```

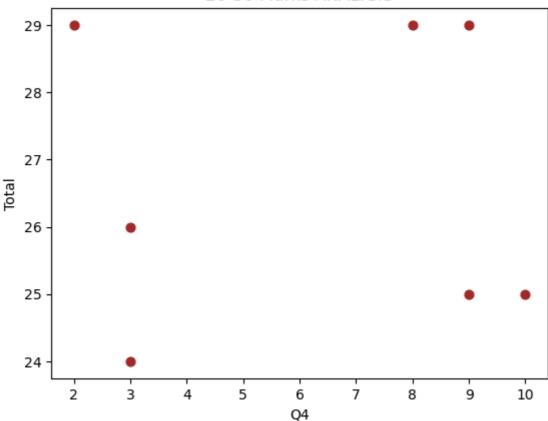




Three students haven't attempted the question and most of them who attempted scored 4-7 marks and maximum mark is 10 scored by three students.

```
In [154...
b.plot.scatter(x='Q4',y='Total',color='brown',s=40)
plt.title("20-30 Marks ANALYSIS")
plt.show()
```



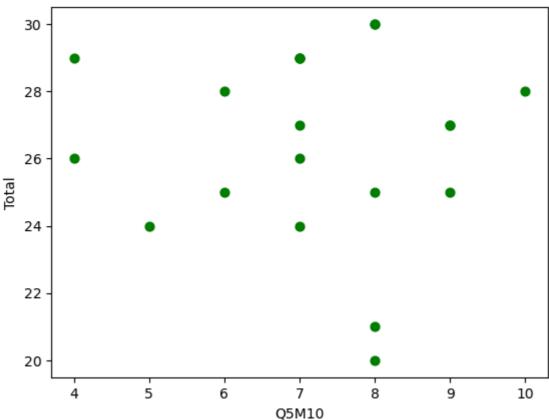


#### Most of the students in this range haven't attempted

this question, others got 2-4 marks and maximum mark is 10 by one student.

```
In [35]: b.plot.scatter(x='Q5M10',y='Total',color='green',s=40)
    plt.title("20-30 Marks ANALYSIS")
    plt.ylabel("Total")
    plt.show()
```





Majority of the students who attempted scored marks between 5 and 9, also some scored zero, meaning five students left the question unattempted

```
In [37]: c=DF.loc[(DF['Total'] >= 25) & (DF['Total'] <= 35)]
    c=c.reset_index()
    c</pre>
```

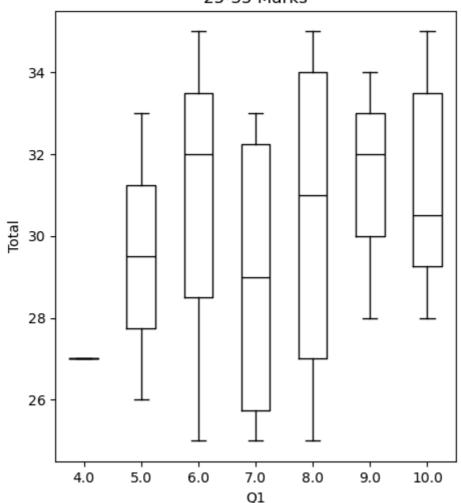
Out[37]: index Total Q1aM4 Q1bM6 Q2aM6 Q2bM4 Q3aM5 Q3bM5 Q4aM3 Q4bM7 0 72 25 2.0 NaN 4.0 4.0 NaN 5.0 3.0 7.0 1 48 25 2.0 6.0 NaN NaN NaN NaN 3.0 6.0 2 6 25 3.0 4.0 NaN 2.0 5.0 5.0 NaN NaN 3 74 25 1.0 5.0 6.0 4.0 NaN NaN NaN NaN 4 41 26 2.0 3.0 4.0 3.0 4.0 3.0 NaN 3.0 5 19 3.0 NaN 6.0 4.0 2.0 2.0 1.0 26 NaN 6 31 26 3.0 4.0 6.0 2.0 2.0 NaN 1.0 NaN 7 8 27 3.0 5.0 5.0 NaN NaN NaN NaN NaN 8 79 27 2.0 6.0 3.0 2.0 5.0 NaN NaN NaN 9 29 27 6.0 7.0 4.0 NaN 1.0 NaN NaN NaN 10 82 2.0 2.0 5.0 NaN 27 3.0 NaN NaN NaN 5.0 5.0 11 38 28 4.0 6.0 4.0 3.0 1.0 NaN 12 6.0 4.0 67 28 4.0 4.0 NaN NaN NaN NaN 13 84 28 4.0 NaN 5.0 4.0 5.0 4.0 NaN NaN 14 40 29 4.0 6.0 6.0 4.0 NaN NaN 1.0 1.0 15 20 29 2.0 6.0 2.0 2.0 5.0 5.0 NaN NaN 16 52 29 4.0 5.0 4.0 3.0 NaN NaN 3.0 6.0 17 85 29 4.0 6.0 NaN NaN NaN NaN 3.0 5.0 18 35 6.0 30 4.0 6.0 4.0 NaN 1.0 NaN NaN 6.0 5.0 19 14 30 4.0 6.0 2.0 4.0 3.0 NaN 20 6.0 5.0 2.0 16 30 4.0 NaN 4.0 NaN NaN 6.0 5.0 21 80 31 4.0 6.0 2.0 2.0 NaN NaN 22 5.0 5.0 66 31 4.0 5.0 2.0 3.0 1.0 5.0 4.0 23 37 31 4.0 6.0 4.0 NaN NaN NaN NaN 24 1 32 4.0 3.0 4.0 3.0 NaN NaN 3.0 6.0 25 15 32 3.0 NaN 2.0 1.0 5.0 5.0 3.0 7.0 26 27 32 2.0 6.0 6.0 1.0 5.0 5.0 3.0 3.0 27 13 32 3.0 3.0 6.0 4.0 3.0 5.0 NaN NaN 28 32 32 4.0 6.0 6.0 4.0 2.0 NaN NaN NaN 29 81 32 3.0 6.0 3.0 4.0 5.0 3.0 NaN NaN 30 24 33 1.0 6.0 6.0 3.0 5.0 5.0 3.0 3.0 31 2 33 4.0 5.0 5.0 1.0 5.0 5.0 NaN NaN 32 43 33 4.0 5.0 NaN NaN NaN NaN 3.0 4.0

	index	Total	Q1aM4	Q1bM6	Q2aM6	Q2bM4	Q3aM5	Q3bM5	Q4aM3	Q4bM7
33	<b>3</b> 78	33	2.0	3.0	6.0	4.0	5.0	5.0	NaN	NaN
34	<b>4</b> 21	34	4.0	6.0	5.0	3.0	5.0	5.0	NaN	3.0
3!	<b>5</b> 45	34	2.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
36	<b>5</b> 7	34	4.0	6.0	6.0	4.0	NaN	NaN	2.0	NaN
37	<b>7</b> 12	34	4.0	4.0	5.0	3.0	2.0	2.0	2.0	1.0
38	<b>3</b> 58	34	4.0	5.0	6.0	3.0	NaN	NaN	3.0	NaN
39	<b>9</b> 70	35	4.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
40	56	35	2.0	6.0	NaN	NaN	NaN	NaN	3.0	7.0
4	<b>1</b> 9	35	2.0	4.0	5.0	4.0	5.0	5.0	NaN	NaN

#### Total marks 25-35 is filtered from the data set

```
In [40]: c.boxplot(by='Q1', column =['Total'], grid = False,color='black',figsize=[5,6])
plt.title("25-35 Marks")
plt.ylabel("Total")
plt.show()
```

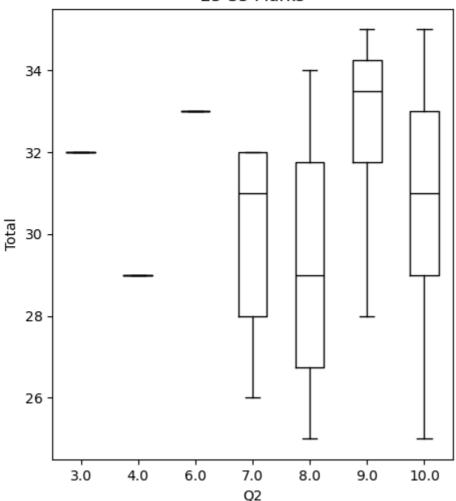
#### Boxplot grouped by Q1 25-35 Marks



## Many of the students in this range got marks between 8 and 10, the maximum mark is 10 and minimum mark is 0.

```
In [43]: c.boxplot(by='Q2', column =['Total'], grid = False,color='black',figsize=[5,6])
    plt.title("25-35 Marks")
    plt.ylabel("Total")
    plt.show()
```



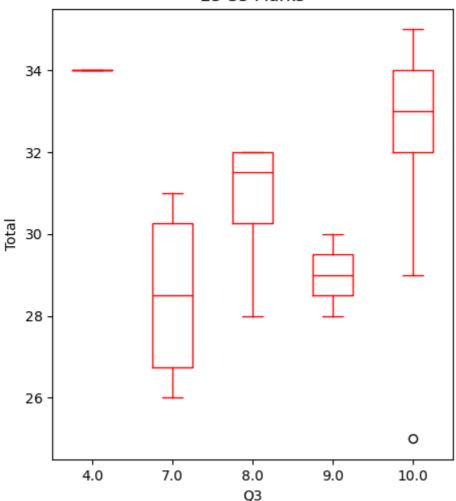


Majority of the students who attempted the question in this range scored marks between 7 and 10

#### The maximum mark is 10 whereas minimum mark is 0.

```
In [45]: c.boxplot(by='Q3', column =['Total'], grid = False,color='red',figsize=[5,6])
    plt.title("25-35 Marks")
    plt.ylabel("Total")
    plt.show()
```



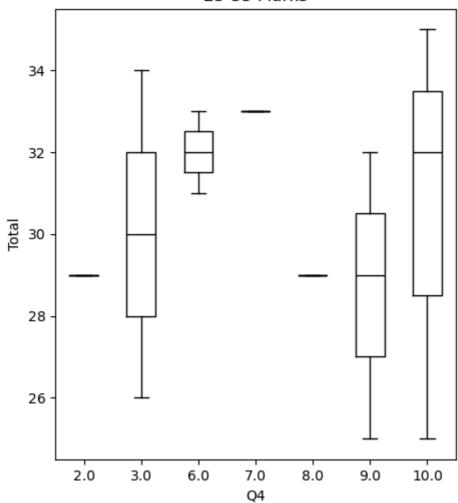


#### The minimum mark in this question is 0 and maximum mark is 10

#### Most of the students have secured marks between 7 and 9

```
In [88]: c.boxplot(by='Q4', column =['Total'], grid = False,color='black',figsize=[5,6])
    plt.title("25-35 Marks")
    plt.ylabel("Total")
    plt.show()
```



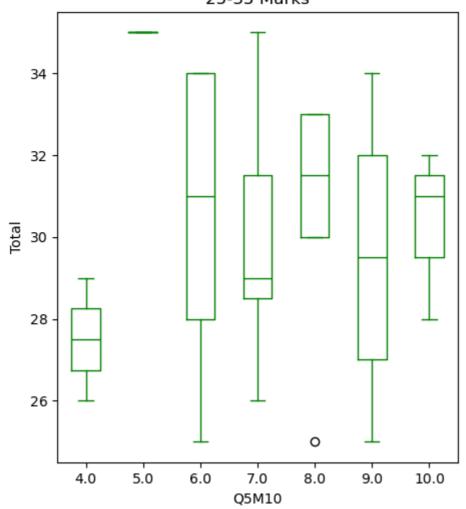


### No student in this range secured full mark for this question

### Minimum mark is 0 and the ones who attempted secured low marks.

```
In [47]: c.boxplot(by='Q5M10', column =['Total'], grid = False,color='green',figsize=[5,
    plt.title("25-35 Marks")
    plt.ylabel("Total")
    plt.show()
```

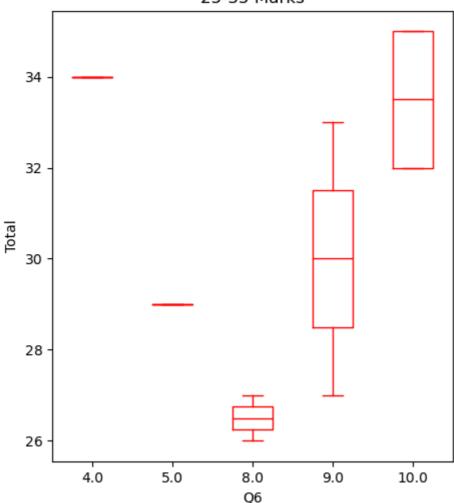
#### Boxplot grouped by Q5M10 25-35 Marks



It can be observed that many students scored marks between 4 and 9, the minimum mark remains 0 and none of the students scored full marks in this question.

```
In [49]: c.boxplot(by='Q6', column =['Total'], grid = False,color='red',figsize=[5,6])
    plt.title("25-35 Marks")
    plt.ylabel("Total")
    plt.show()
```





### None of the students who attempted the question scored full mark

### Many of them didn't attempt this question so minimum mark remains 0.

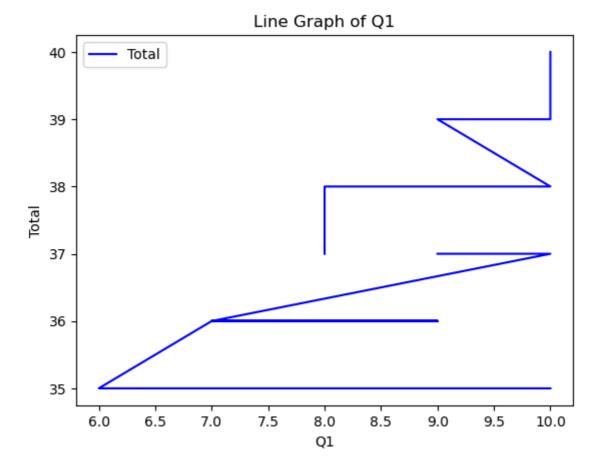
```
In [53]: d=DF.loc[(DF['Total']>=35) & (DF['Total']<=40)]
    d=d.reset_index()
    d</pre>
```

ut[53]:		index	Total	Q1aM4	Q1bM6	Q2aM6	Q2bM4	Q3aM5	Q3bM5	Q4aM3	Q4bM7
	0	70	35	4.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	1	56	35	2.0	6.0	NaN	NaN	NaN	NaN	3.0	7.0
	2	9	35	2.0	4.0	5.0	4.0	5.0	5.0	NaN	NaN
	3	62	36	3.0	4.0	6.0	4.0	5.0	5.0	NaN	NaN
	4	4	36	3.0	6.0	4.0	4.0	5.0	4.0	NaN	NaN
	5	64	36	1.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	6	71	36	4.0	5.0	6.0	4.0	5.0	5.0	NaN	NaN
	7	44	36	3.0	6.0	6.0	2.0	NaN	NaN	2.0	7.0
	8	46	36	4.0	5.0	6.0	4.0	5.0	5.0	NaN	NaN
	9	17	36	3.0	4.0	6.0	4.0	NaN	NaN	NaN	NaN
	10	83	37	4.0	6.0	6.0	2.0	NaN	NaN	NaN	NaN
	11	0	37	4.0	5.0	6.0	4.0	2.0	1.0	NaN	5.0
	12	36	37	2.0	NaN	6.0	4.0	5.0	5.0	NaN	NaN
	13	10	37	3.0	5.0	6.0	4.0	NaN	NaN	3.0	6.0
	14	59	38	2.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	15	55	38	3.0	5.0	6.0	4.0	NaN	NaN	NaN	NaN
	16	47	38	2.0	6.0	6.0	4.0	5.0	5.0	3.0	7.0
	17	28	38	2.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	18	42	38	4.0	6.0	6.0	4.0	5.0	5.0	3.0	5.0
	19	49	39	3.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	20	26	39	4.0	6.0	6.0	3.0	4.0	NaN	NaN	NaN
	21	73	40	4.0	6.0	NaN	NaN	5.0	5.0	3.0	NaN
	22	53	40	4.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	23	51	40	0.0	NaN	6.0	4.0	NaN	NaN	3.0	7.0
	24	33	40	NaN	NaN	6.0	4.0	5.0	5.0	3.0	7.0
	25	65	40	4.0	6.0	6.0	4.0	5.0	5.0	NaN	NaN
	4										•

#### Total marks 35-40 is filtered from the data set

```
In [56]: d.plot.line(x='Q1',y='Total',color='blue')
   plt.title("Line Graph of Q1")
```

```
plt.ylabel("Total")
plt.show()
```

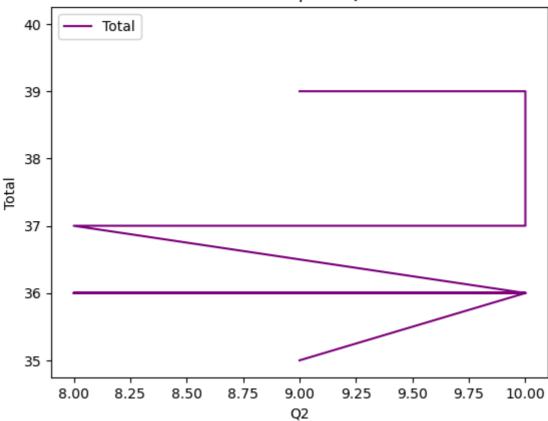


It can be deduced from the above line graph that majority of the students in this range scored marks between 7 and 10.

The maximum mark is 10 and minimum mark is 3 meaning none of the students left the question unattempted.

```
In [60]: d.plot.line(x='Q2',y='Total',color='purple')
    plt.title("Line Graph of Q2")
    plt.ylabel("Total")
    plt.show()
```

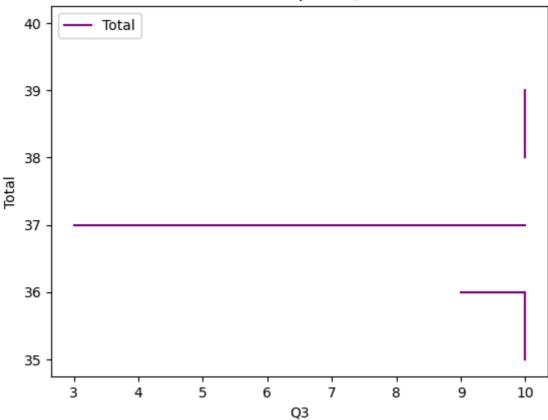




The students who attempted this question scored marks between 8 and 10 overall, also the minimum mark is zero whereas the maximum mark is 10.

```
In [63]: d.plot.line(x='Q3',y='Total',color='purple')
    plt.title("Line Graph of Q3")
    plt.ylabel("Total")
    plt.show()
```



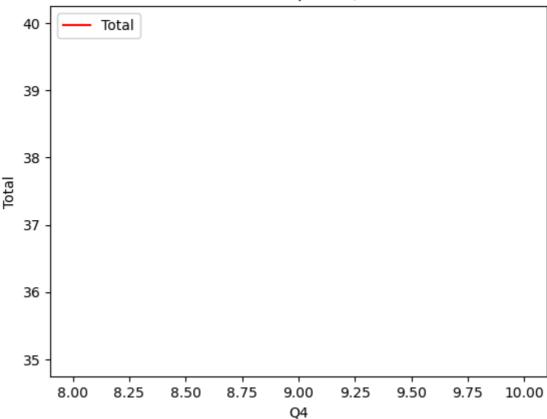


The students in this range scored 6-10 marks on an average

The maximum mark is 10 whereas minimum mark is 0, meaning some students did not attempt this question.

```
In [67]: d.plot.line(x='Q4',y='Total',color='red')
    plt.title("Line Graph of Q4")
    plt.ylabel("Total")
    plt.show()
```

#### Line Graph of Q4

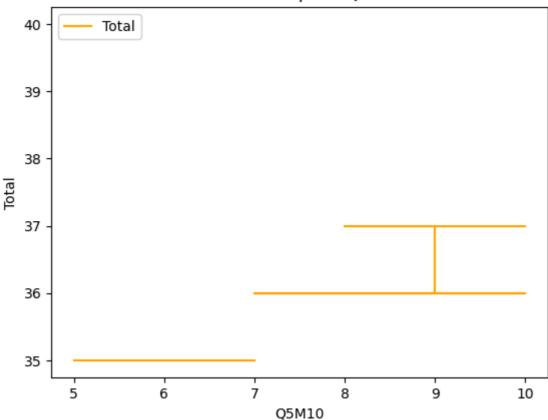


Most of the students who have attempted the question scored marks between 2 and 8 on an average.

### The minimum mark for the question is 0 whereas highest mark scored is 10

```
In [71]: d.plot.line(x='Q5M10',y='Total',color='orange')
    plt.title("Line Graph of Q5")
    plt.ylabel("Total")
    plt.show()
```



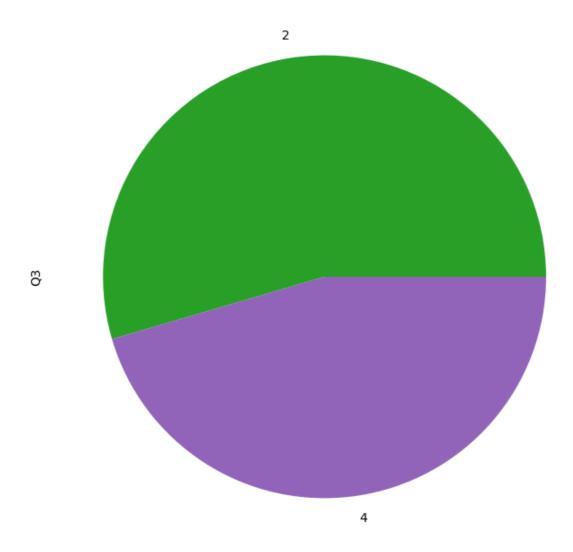


Majority of the students who attempted this question scored marks between 6 and 9 overall.

The maximum mark is 10 whereas minimum mark is 0, meaning some students left the question unattempted.

```
In [75]: a['Q3'].plot(kind='pie',subplots=True,figsize=(8,8))
    plt.title("Pie Chart of Q3")
Out[75]: Text(0.5, 1.0, 'Pie Chart of Q3')
```

#### Pie Chart of Q3

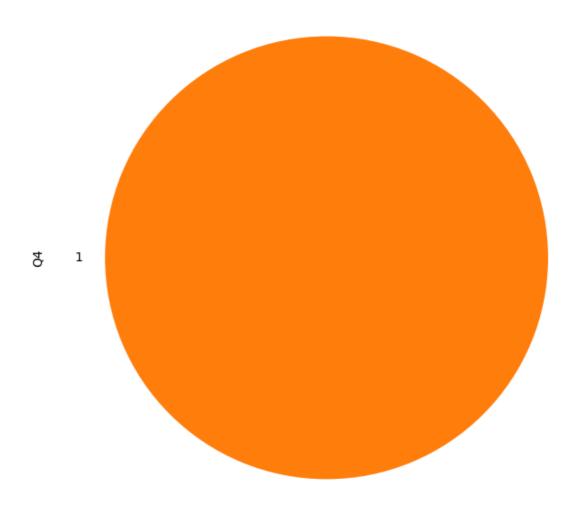


From the above pie chart we can deduce that most of the students who attempted the question scored marks between 4 and 7, the minimum mark is 0

```
In [78]: a['Q4'].plot(kind='pie',subplots=True,figsize=(8,8))
   plt.title("Pie Chart of Q4")
```

Out[78]: Text(0.5, 1.0, 'Pie Chart of Q4')

#### Pie Chart of Q4



Majority of the students who attempted the question scored better marks and very few scored 0 or left unattempted

#### **THANK YOU**

In [ ]: