Create a dataframe as follows using Pandas

	Chemistry	Physics	Mathematics	English
Subodh	67	45	50	19
Ram	90	92	87	90
Abdul	66	72	81	72
John	32	40	12	68

```
In [8]: import pandas as pd
        import numpy as np
        marks = { 'Chemistry': [67,90,66,32],
                 'Physics': [45,92,72,40],
                 'Mathematics': [50,87,81,12],
                 'English': [19,90,72,68]}
        marks_df = pd.DataFrame(marks, index = ['Subodh', 'Ram', 'Abdul', 'John'])
        marks_df
Out[8]:
                 Chemistry Physics Mathematics English
         Subodh
                       67
            Ram
                       90
                               92
                                                  90
```

The teacher wants to create a new column called total and the value of each row in total column should be the sum of all marks of each student

```
In [21]: | marks_df['Total'] = marks_df['Chemistry'] + marks_df['Physics'] + marks_df['Mathematics'] + marks_df['English']
         marks_df
Out[21]:
                   Chemistry Physics Mathematics English Total
           Subodh
                         67
                                                          181
                                                     19
             Ram
                         90
                                 92
                                             87
                                                     90
                                                         359
            Abdul
                         66
                                 72
                                             81
                                                     72
                                                         291
             John
                         32
                                 40
                                             12
                                                     68
                                                         152
```

Drop the Total column

Abdul

John

66

32

40

12

68

	_	-		-
Subodh	67	45	50	19
Ram	90	92	87	90
Abdul	66	72	81	72
John	32	40	12	68

The teacher wants to award five bonus marks to all the students.

```
In [11]: new_marks = marks_df + 5
new_marks
```

Out[11]:

	Chemistry	Physics	Mathematics	English
Subodh	72	50	55	24
Ram	95	97	92	95
Abdul	71	77	86	77
John	37	45	17	73

The teacher wants to increase the marks of all the students as follows-

- Chemistry: + 5
- Physics: + 10
- Mathematics: +10
- English: + 2

```
In [12]: new_marks = marks_df + [5,10,10,2]
    new_marks
```

Out[12]:

	Chemistry	Physics	Mathematics	English
Subodh	72	55	60	21
Ram	95	102	97	92
Abdul	71	82	91	74
John	37	50	22	70

The teacher wants to get the total marks scored in each subject

The teacher wants to get the total marks scored by each student.

The teacher wants to hide the marks of the students who scored less than 35 marks and display Fail in place of those marks

In [19]: f = marks_df < 35
marks_df.mask(f, 'Fail')</pre>

Out[19]:

	Chemistry	Physics	Mathematics	English
Subodh	67	45	50	Fail
Ram	90	92	87	90
Abdul	66	72	81	72
John	Fail	40	Fail	68