```python
In [2]: import numpy as np
        import pandas as pd
```

```python
In [3]: df = pd.read_csv('https://raw.githubusercontent.com/AshishJangra27/Data-Science-Specialization/main/Week%20-%208/Proje
```

```python
In [4]: df.head()
```

Out[4]:

| | country | iso_code | date | total_vaccinations | people_vaccinated | people_fully_vaccinated | daily_vaccinations_raw | daily_vaccinations | total_vac |
|---|---|---|---|---|---|---|---|---|---|
| 0 | Afghanistan | AFG | 2021-02-22 | 0.0 | 0.0 | NaN | NaN | NaN | |
| 1 | Afghanistan | AFG | 2021-02-23 | NaN | NaN | NaN | NaN | 1367.0 | |
| 2 | Afghanistan | AFG | 2021-02-24 | NaN | NaN | NaN | NaN | 1367.0 | |
| 3 | Afghanistan | AFG | 2021-02-25 | NaN | NaN | NaN | NaN | 1367.0 | |
| 4 | Afghanistan | AFG | 2021-02-26 | NaN | NaN | NaN | NaN | 1367.0 | |

```
In [5]: df['date']              # printing the date column

Out[5]: 0          2021-02-22
        1          2021-02-23
        2          2021-02-24
        3          2021-02-25
        4          2021-02-26
                      ...
        86507      2022-03-25
        86508      2022-03-26
        86509      2022-03-27
        86510      2022-03-28
        86511      2022-03-29
        Name: date, Length: 86512, dtype: object
```

```
In [6]: # creating a empty list and appending the data of date column into the list and also slicing the data

        month = []             # creating a empty list

        for i in df['date']:
            month.append(i[5:7]) # appending and slicing of data
```

```
In [7]: # creating a dictonary which contains months with their month number

        dct = {'01': "Jan",'02': "Feb",'03': "Mar",'04': "Apr",
               '05': "May",'06': "Jun",'07': "Jul",'08': "Aug",
               '09': "Sept",'10': "Oct",'11': "Nov",'12': "Dec", }
```

```
In [8]: for i in dct.keys():    # printing the keys
            print(i)

01
02
03
04
05
06
07
08
09
10
11
12

In [9]: month

Out[9]: ['02',
         '02',
         '02',
         '02',
         '02',
         '02',
         '02',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
         '03',
```

```
In [10]:  # creating a list and aapending the data of month and month number by which i have created column

          month_1 = []          # creating a empty list

          for num in month:
              for i in dct.keys():          # reading the keys of dictonaries
                  if (num == i):            # checking whether num in month is equal to keys in dct or not
                      month_1.append(dct[i])  # if it is equal then appending the relevant data to a empty list
```

```
In [11]:  df['Months'] = month_1          # creating a Months column
          df['Month_num'] = month          # creating a Month column
```

```
In [12]:  df.head()
```

Out[12]:

| | country | iso_code | date | total_vaccinations | people_vaccinated | people_fully_vaccinated | daily_vaccinations_raw | daily_vaccinations | total_vac |
|---|---|---|---|---|---|---|---|---|---|
| 0 | Afghanistan | AFG | 2021-02-22 | 0.0 | 0.0 | NaN | NaN | NaN | NaN |
| 1 | Afghanistan | AFG | 2021-02-23 | NaN | NaN | NaN | NaN | NaN | 1367.0 |
| 2 | Afghanistan | AFG | 2021-02-24 | NaN | NaN | NaN | NaN | NaN | 1367.0 |
| 3 | Afghanistan | AFG | 2021-02-25 | NaN | NaN | NaN | NaN | NaN | 1367.0 |
| 4 | Afghanistan | AFG | 2021-02-26 | NaN | NaN | NaN | NaN | NaN | 1367.0 |

```
In [14]:  # this is the column which i have created form date column

          df['Months']

Out[14]:  0          Feb
          1          Feb
          2          Feb
          3          Feb
          4          Feb
                     ...
          86507      Mar
          86508      Mar
          86509      Mar
          86510      Mar
          86511      Mar
          Name: Months, Length: 86512, dtype: object

In [ ]:
```