

- Create a 100 dates every 4 days, starting from 1st February 2032
- Create a DataFrame with an integer column 'Integers' : from 0 to 99
- Add to the dataframe the date values in a column 'Date'
- Extract the name of the day of the week of the 'Date' column and set it as a new column 'Day name'

```
In [1]: import pandas as pd
        from datetime import datetime

        start = datetime(day=1, month=2, year=2024)
        sr = pd.date_range(start=start, periods=100, freq='4d')
        sr
```

```
Out[1]: DatetimeIndex(['2024-02-01', '2024-02-05', '2024-02-09', '2024-02-13',
                        '2024-02-17', '2024-02-21', '2024-02-25', '2024-02-29',
                        '2024-03-04', '2024-03-08', '2024-03-12', '2024-03-16',
                        '2024-03-20', '2024-03-24', '2024-03-28', '2024-04-01',
                        '2024-04-05', '2024-04-09', '2024-04-13', '2024-04-17',
                        '2024-04-21', '2024-04-25', '2024-04-29', '2024-05-03',
                        '2024-05-07', '2024-05-11', '2024-05-15', '2024-05-19',
                        '2024-05-23', '2024-05-27', '2024-05-31', '2024-06-04',
                        '2024-06-08', '2024-06-12', '2024-06-16', '2024-06-20',
                        '2024-06-24', '2024-06-28', '2024-07-02', '2024-07-06',
                        '2024-07-10', '2024-07-14', '2024-07-18', '2024-07-22',
                        '2024-07-26', '2024-07-30', '2024-08-03', '2024-08-07',
                        '2024-08-11', '2024-08-15', '2024-08-19', '2024-08-23',
                        '2024-08-27', '2024-08-31', '2024-09-04', '2024-09-08',
                        '2024-09-12', '2024-09-16', '2024-09-20', '2024-09-24',
                        '2024-09-28', '2024-10-02', '2024-10-06', '2024-10-10',
                        '2024-10-14', '2024-10-18', '2024-10-22', '2024-10-26',
                        '2024-10-30', '2024-11-03', '2024-11-07', '2024-11-11',
                        '2024-11-15', '2024-11-19', '2024-11-23', '2024-11-27',
                        '2024-12-01', '2024-12-05', '2024-12-09', '2024-12-13',
                        '2024-12-17', '2024-12-21', '2024-12-25', '2024-12-29',
                        '2025-01-02', '2025-01-06', '2025-01-10', '2025-01-14',
                        '2025-01-18', '2025-01-22', '2025-01-26', '2025-01-30',
                        '2025-02-03', '2025-02-07', '2025-02-11', '2025-02-15',
                        '2025-02-19', '2025-02-23', '2025-02-27', '2025-03-03'],
                        dtype='datetime64[ns]', freq='4D')
```

```
In [2]: df = pd.DataFrame({'Integers': range(100)})  
df
```

```
Out[2]:
```

	Integers
0	0
1	1
2	2
3	3
4	4
...	...
95	95
96	96
97	97
98	98
99	99

100 rows × 1 columns

```
In [3]: df['Date'] = sr
df
```

```
Out[3]:
```

	Integers	Date
0	0	2024-02-01
1	1	2024-02-05
2	2	2024-02-09
3	3	2024-02-13
4	4	2024-02-17
...
95	95	2025-02-15
96	96	2025-02-19
97	97	2025-02-23
98	98	2025-02-27
99	99	2025-03-03

100 rows × 2 columns

```
In [4]: df['Day name'] = df['Date'].dt.day_name()
```

```
In [5]: df
```

```
Out[5]:
```

	Integers	Date	Day name
0	0	2024-02-01	Thursday
1	1	2024-02-05	Monday
2	2	2024-02-09	Friday
3	3	2024-02-13	Tuesday
4	4	2024-02-17	Saturday
...
95	95	2025-02-15	Saturday
96	96	2025-02-19	Wednesday
97	97	2025-02-23	Sunday
98	98	2025-02-27	Thursday
99	99	2025-03-03	Monday

100 rows × 3 columns

