Period_range()

pd.period_range('2017', '2019')

Output

PeriodIndex(['2017-1-1', '2017-1-2', ...
'2017-1-10',
...
'2018-12-23' .... '2019-1-1'
dtype='period[D]', length=731)

pd.period_range('2017', '2019', freq='Y')

Output

PeriodIndex(['2017', '2018', '2019'], dtype='period[A-DEC]')

pd.period_range('2017-5', ~~'2018~~ '2017-8',
freq='Q')

Output

PeriodIndex(['2017Q2', '2017Q3'], dtype='period[Q-DEC]')

period range as Index → Period Index

```
indx = pd.period_range('2017-5', '2017-8',
                       freq='M')
```

```
import numpy as np
num_series = pd.Series(np.random.randint
    (1,100, len(indx)), index=indx)
```

call
num_series

```
2017-5    7
2017-6    81
2017-7    60
2017-8    79
Freq: M, dtype: int32
```

PeriodIndex to DatetimeIndex and vice versa

```
indx = pd.period_range('2017-5','2017-8',
                       freq='M')
newIndex = indx.to_timestamp() → converts to DatetimeIn
newIndex.to_period() → converts in to PeriodIndex
```

Output

```
PeriodIndex(['2017-5','2017-6','2017-7','2017-8'],
            dtype='period[M]')
```

Iterate over pandas dataframes

```
n = np.read_excel('newdata.xlsx')
for i in n:
    print(i)
```

Output

```
Unnamed: 0
gender
dob
occupation
work_exp
salary
own_house
children
```

⊙ By using iteritems()

```
for column, value in n.iteritems():
    print(column)
    print(value)
```

Output

```
Unnamed: 0
0    0
1    1
2    2
3    3
4    4
5    5
6    6
7    7
8    8
9    9
Name: Unnamed: 0, dtype: int64
gender
0      M
1      NaN
2      F
3      M
4      NaN
5      F
6      M
7      NaN
8      F
9      M
Name: gender, dtype: object
dob
0    1989-7-31
1    1992-10-30
2    ...
3
4
9    1987-7-10
Name: dob, dtype: datetime64[ns]
```

occu

0 sen