

Write a Pandas program to detect missing values of a given DataFrame.
Display True or False PROGRAM:

```
import pandas as pd

import numpy as np

# Create the given DataFrame

data = {

    'ord_no': [70001.0, np.nan, 70002.0, 70004.0, np.nan, 70005.0, np.nan, 70010.0, 70003.0,
70012.0, np.nan, 70013.0],

    'purch_amt': [150.50, 270.65, 65.26, 110.50, np.nan, 948.50, 2400.60, 5760.00, 1983.43, 2480.40,
250.45, 75.29, 3045.60, np.nan, np.nan],

    'ord_date': ['2012-10-05', '2012-09-10', '2012-08-17', '2012-09-10', '2012-07-27', '2012-09-10',
'2012-10-10', '2012-10-10', '2012-06-27', '2012-08-17', '2012-04-25', np.nan, np.nan, np.nan,
np.nan],

    'customer_id': [3002, 3001, 3001, 3003, 3002, 3001, 3001, 3004, 3003, 3002, 3001, 3001, 5002.0,
5003.0, 5001.0, np.nan, 5002.0, 5001.0, 5001.0, np.nan, 5003.0, 5002.0, 5003.0, np.nan],

    'salesman_id': ['5002.0', '5003.0', '5001.0', np.nan, '5002.0', '5001.0', '5001.0', np.nan, '5003.0',
'5002.0', '5003.0', np.nan, np.nan, np.nan, np.nan],

}

# Ensure all arrays have the same length

max_length = max(len(v) for v in data.values())

data = {k: v + [np.nan] * (max_length - len(v)) for k, v in data.items()}

df = pd.DataFrame(data)

# Detect missing values and display True or False

missing_values = df.isna()

# Display the result

print(missing_values)
```

OUTPUT:

===== RESTART: C:/Users/PADMASRI/Documents/Codings/program 13.py

	ord_no	purch_amt	ord_date	customer_id	salesman_id
0	False	False	False	False	False
1	True	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	True
4	True	True	False	False	False
5	False	False	False	False	False
6	True	False	False	False	False
7	False	False	False	False	True
8	False	False	False	False	False
9	False	False	False	False	False
10	True	False	False	False	False
11	False	False	True	False	True
12	True	False	True	False	True
13	True	True	True	False	True
14	True	True	True	False	True
15	True	True	True	True	True
16	True	True	True	False	True
17	True	True	True	False	True
18	True	True	True	False	True
19	True	True	True	True	True
20	True	True	True	False	True
21	True	True	True	False	True
22	True	True	True	False	True
23	True	True	True	True	True
