

## EXPERIMENT-15

Aim: To execute pandas program to keep the series with at least 2 NaN values in a given dataframe.

### Pseudocode:

1) create a Dataframe.

Define a dictionary with column names and data.  
Create a Pandas dataframe from the dictionary.

2) Count NaN values in each row.

use the `isnull()` method.

### Sample Input:

Dataframe (ord\_no, purch\_amt, ord\_date, customer\_id)

### Sample output:

	ord_no	purch_amt	ord_date	customer_id
0	nan	Nan	Nan	Nan
3	Nan	Nan	Nan	Nan
11	nan	Nan	Nan	Nan

### Result:

Therefore the pandas program to keep Nan values executed successfully.

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'purch_amt': [np.nan, 270.65, 65.26, np.nan, 948.50, 2400.60, 5760.00, 1983.43, 2480.40, 250.45, 75.29, np.nan],
'ord_date': [np.nan, '2012-09-10', np.nan, np.nan, '2012-09-10', '2012-07-27', '2012-09-10', '2012-10-10', '2012-10-10', '2012-06-27', '2012-
'customer_id': [np.nan, 3001.0, 3001.0, np.nan, 3002.0, 3001.0, 3001.0, 3004.0, 3003.0, 3002.0, 3001.0, np.nan]]

df = pd.DataFrame(data)

# find rows with at least 2 NaN values
df_filtered = df[df.isnull().sum(axis=1) >= 2]

print(df_filtered)
```

	ord_no	purch_amt	ord_date	customer_id
0	NaN	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN
11	NaN	NaN	NaN	NaN

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