AIM: To execute pandas program to replace	ce missing
value in a given dataframe which	do not
have any valuable information.	0.53
Pseudo code:	
1) Import pandas labrary.	
27 create dotaframe with Hissing	value là
3) Use suplace () method to suplace q	
with NOW wing fillows	
4) Duolen	
(Completed doctriforame.	pt steel
Sample Imput:	35
db = pd. Datafrance Inp. veurdom, rand (10,4). Co	
1	elimns = [A]
Sample Output:	'c'.'DJ)
A B C D	10
0 010	
0.32	.3
0.45 6.59	at the
2 11 (1	100
; 0.70 0.37	1
9 0.29	1
'esult: 0.43 0.60 0.41	5
This code has been	BHILLIA
it put. Successful	Ux G ad

```
import pandas as pd
import numpy as np
# Sample DataFrame based on your screenshot
data = {
   'ord no': [70001, np.nan, 70002, 70004, np.nan, 70005, '--', 70010, 70003, 70012, np.nan, 70013],
   'purch amt': [150.5, 270.65, 65.26, 110.5, 948.5, 2400.6, 5760, '?', 12.43, 2480.4, 250.45, 3045.6],
   'ord date': ['?', '2012-09-10', np.nan, '2012-08-17', '2012-09-10', '2012-09-10', '2012-10-10', '2012-10-10', '2012-06-27', '2012-08-17', '2012-04-25'],
   'customer id': [3002, 3001, 3001, 3003, 3002, 3001, 3001, 3004, '--', 3002, 3001, 3001],
   'salesman id': [5002, 5003, '?', 5001, np.nan, 5001, 5001, '?', 5003, 5002, 5003, '--']
                                                                                                IDLE Shell 3.12.4
                                                                                                                                                                           X
df = pd.DataFrame(data)
                                                                                               File Edit Shell Debug Options Window Help
                                                                                                   DataFrame after replacing placeholders with NaN:
# Replace placeholders ('?', '--') with NaN
                                                                                                         ord no purch amt ord date customer id salesman id
df.replace(['?', '--'], np.nan, inplace=True)
                                                                                                                                           3002.0
                                                                                                       70001.0
                                                                                                                  150.50
                                                                                                                                                        5002.0
                                                                                                                                 NaN
                                                                                                          NaN
                                                                                                                   270.65 2012-09-10
                                                                                                                                           3001.0
                                                                                                                                                        5003.0
# Display the DataFrame after replacement
                                                                                                       70002.0
                                                                                                                   65.26
                                                                                                                                 NaN
                                                                                                                                           3001.0
                                                                                                                                                           NaN
print("DataFrame after replacing placeholders with NaN:\n", df)
                                                                                                       70004.0
                                                                                                                  110.50 2012-08-17
                                                                                                                                           3003.0
                                                                                                                                                        5001.0
                                                                                                                   948.50 2012-09-10
                                                                                                                                           3002.0
                                                                                                                                                          NaN
# Optionally, you can fill NaN values with suitable replacements, like 0 for numerical columns o
                                                                                                       70005.0
                                                                                                                  2400.60 2012-07-27
                                                                                                                                           3001.0
                                                                                                                                                        5001.0
df filled = df.fillna({
                                                                                                                 5760.00 2012-09-10
                                                                                                          NaN
                                                                                                                                           3001.0
                                                                                                                                                        5001.0
   'ord no': 0,
                           # Fill missing order numbers with 0
                                                                                                       70010.0
                                                                                                                     NaN 2012-10-10
                                                                                                                                           3004.0
                                                                                                                                                           NaN
   'purch amt': df['purch amt'].mean(), # Fill missing purchase amounts with the column mean
                                                                                                       70003.0
                                                                                                                   12.43 2012-10-10
                                                                                                                                              NaN
                                                                                                                                                        5003.0
    'ord date': 'Unknown', # Fill missing order dates with 'Unknown'
                                                                                                       70012.0
                                                                                                                 2480.40 2012-06-27
                                                                                                                                           3002.0
                                                                                                                                                        5002.0
    'customer id': 0,
                           # Fill missing customer IDs with 0
                                                                                                                  250.45 2012-08-17
                                                                                                                                           3001.0
                                                                                                                                                        5003.0
                                                                                                  10
                                                                                                          NaN
   'salesman id': 0
                           # Fill missing salesman IDs with 0
                                                                                                   11 70013.0
                                                                                                                 3045.60 2012-04-25
                                                                                                                                           3001.0
                                                                                                                                                           NaN
                                                                                                   DataFrame after filling NaN values:
# Display the DataFrame after filling NaN values
                                                                                                         ord no
                                                                                                                 purch amt
                                                                                                                               ord date customer id salesman id
print("\nDataFrame after filling NaN values:\n", df filled)
                                                                                                       70001.0 150.500000
                                                                                                                               Unknown
                                                                                                                                             3002.0
                                                                                                                                                          5002.0
                                                                                                          0.0 270.650000 2012-09-10
                                                                                                                                             3001.0
                                                                                                                                                          5003.0
                                                                                                                 65.260000
                                                                                                                                             3001.0
                                                                                                                                                             0.0
                                                                                                       70002.0
                                                                                                                               Unknown
                                                                                                       70004.0
                                                                                                                110.500000
                                                                                                                            2012-08-17
                                                                                                                                             3003.0
                                                                                                                                                          5001.0
                                                                                                          0.0 948.500000 2012-09-10
                                                                                                                                             3002.0
                                                                                                                                                             0.0
                                                                                                      70005.0 2400.600000 2012-07-27
                                                                                                                                             3001.0
                                                                                                                                                          5001.0
                                                                                                          0.0 5760.000000 2012-09-10
                                                                                                                                             3001.0
                                                                                                                                                          5001.0
                                                                                                      70010.0 1408.626364 2012-10-10
                                                                                                                                             3004.0
                                                                                                                                                             0.0
                                                                                                                                                          5003.0
                                                                                                       70003.0
                                                                                                                12.430000 2012-10-10
                                                                                                                                                0.0
                                                                                                       70012.0 2480.400000 2012-06-27
                                                                                                                                             3002.0
                                                                                                                                                          5002.0
                                                                                                          0.0 250.450000 2012-08-17
                                                                                                                                             3001.0
                                                                                                                                                          5003.0
                                                                                                  11 70013.0 3045.600000 2012-04-25
                                                                                                                                             3001.0
                                                                                                                                                             0.0
                                                                                               >>>
                                                                                                                                                                           Ln: 54 Col: 0
```