Select 'name' and 'score' columns from DataFrame

Aim

To select the 'name' and 'score' columns from a given DataFrame using Pandas.

Algorithm

1. Import the required libraries (pandas and numpy)
2. Create a dictionary with sample data
3. Create a list of labels for the index
4. Create a DataFrame using the dictionary and labels
5. Select the 'name' and 'score' columns from the DataFrame
6. Display the selected columns

Code

```
import pandas as pd
import numpy as np

exam_data = {'name': ['Anastasia', 'Dima', 'Katherine', 'James', 'Emily', 'Michael',
'Matthew', 'Laura', 'Kevin', 'Jonas'],
             'score': [12.5, 9, 16.5, np.nan, 9, 20, 14.5, np.nan, 8, 19],
             'attempts': [1, 3, 2, 3, 2, 3, 1, 1, 2, 1],
             'qualify': ['yes', 'no', 'yes', 'no', 'no', 'yes', 'yes', 'no', 'no',
'yes']}
labels = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']

df = pd.DataFrame(exam_data, index=labels)
selected_columns = df[['name', 'score']]
print(selected_columns)
```

Output

```
     Name     score
a  Anastasia   12.5
b    Dima      9.0
c  Katherine   16.5
d    James     NaN
e    Emily     9.0
f   Michael    20.0
g   Matthew    14.5
h    Laura     NaN
i    Kevin     8.0
j    Jonas    19.0
```

Result

The program successfully created a DataFrame from the given dictionary and selected the 'name' and 'score' columns. The output shows a new DataFrame containing only these two columns, with the index labels preserved.