1:\* Write a Pandas program to create a DataFrame from a dictionary and display it.

\*Sample data:\*

plaintext

score = {'Math': [78, 85, 96, 80, 86], 'English': [84, 94, 89, 83, 86], 'Hindi': [86, 97, 96, 72, 83]}

\*Output:\*

plaintext

Math English Hindi

0 78 84 86

1 85 94 97

2 96 89 96

3 80 83 72

4 86    86     83

Code:

import pandas as pd

# Sample data

score = {'Math': [78, 85, 96, 80, 86], 'English': [84, 94, 89, 83, 86], 'Hindi': [86, 97, 96, 72, 83]}

# Creating a DataFrame from the dictionary

df = pd.DataFrame(score)

# Display the DataFrame

print(df)

Output:

Math English Hindi

0 78 84 86

1 85 94 97

2 96 89 96

3 80 83 72

4 86 86 83

2: Write a Pandas program to create and display a DataFrame from a specified dictionary data which has the index labels.\*

\*Sample Python dictionary data and list labels:\*

python

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']}

Code:

import pandas as pd

import numpy as np

# Sample data

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']

}

# Specified labels for index

labels = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j']

# Creating a DataFrame from the dictionary with index labels

df = pd.DataFrame(exam\_data, index=labels)

# Display the DataFrame

print(df)

Output:

name score attempts qualify

a Anastasia 12.5 1 yes

b Dima 9.0 3 no

c Katherine 16.5 2 yes

d James NaN 3 no

e Emily 9.0 2 no

f Michael 20.0 3 yes

g Matthew 14.5 1 yes

h Laura NaN 1 no

i Kevin 8.0 2 no

j Jonas 19.0 1 yes