……………………………………………………………Assignment…………………………………………………………..

1. Write a Pandas program to create a dataframe from a dictionary and display it. Sample data: score=['Math': [78,85,96,80,86], 'English': [84,94,89,83,86], 'Hindi': [86,97,96,72,83]

//code

import pandas as pd

# Sample data as provided

data = {

'Math': [78, 85, 96, 80, 86],

'English': [84, 94, 89, 83, 86],

'Hindi': [86, 97, 96, 72, 83]

}

# Create a DataFrame

df = pd.DataFrame(data)

# 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:

exam\_data = {'name': ['Anastasia', 'Dima', 'Katherine', 'James', 'Emily'.

'Michael', 'Matthew', 'Laura', 'Kevin', 'Jonas'],

'score': [12.5, 9, 16.5, пр.пап, 9, 20, 14.5, пр.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 # Import numpy for handling NaN values

# Sample Python dictionary 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']

}

# Create DataFrame

df = pd.DataFrame(exam\_data)

# Display the DataFrame

print(df)

output:

name score attempts qualify

0 Anastasia 12.5 1 yes

1 Dima 9.0 3 no

2 Katherine 16.5 2 yes

3 James NaN 3 no

4 Emily 9.0 2 no

5 Michael 20.0 3 yes

6 Matthew 14.5 1 yes

7 Laura NaN 1 no

8 Kevin 8.0 2 no

9 Jonas 19.0 1 yes

…………………………………………………………………………………………………………………………………………………….

mn