YODAFY

Assignment - Introduction to Pandas

Create a simple series combining positive as well as negative random numbers and store the values in 'df' variable

✓ Print the above variable and show the output

✓ Print out only the values in the variable

✓ Print out the index reference in the variable

✓ Create Series data structure with 5 values and give index labels as A,B,C,D,E

✓ Use following codes to create Series

sdata = {'Mumbai': 2000, 'Kolkata': 4000, 'Delhi': 10000, 'Chennai': NaN}

obj3 = pd.Series(sdata)

Use above create series and do the following:

1. Add Gujrat index in the dataset with value as NaN

2. Find out the missing values from the above data set and after incoporating point 1 above. Output to be given as boolean values

3. Replace the missing values with 2000 and 4000

✓ Create a DataFrame with following columns

1. Country: India, China, Nepal, Bhutan, Srilanka

2. Population: 1000, 2000, 500, 200, 50

3. GDP: 5000, 10000, 200, 100,80

4. Index: Use Population and GDP to be the row label indexes

Use the above dataset to perform following tasks:

1. Filter out all the values for China

2. Filter out India's GDP

3. Filter out GDP for all the countries

✓ Create random Series of 10 values and give index to be [a,b,c,d,e,f,g,h,i,j]

✓ Filter out value of index g

✓ Filter out values of indexes e to j

✓ Use filter to sub-set values less than 2

✓ Create following DataFrame

data1 = pd.DataFrame(np.arange(16).reshape((4, 4)), columns=list('bcde'),index=['Kolkata', 'Chennai', 'Mumbai',Delhi])

List out the error if any and try to resolve the same