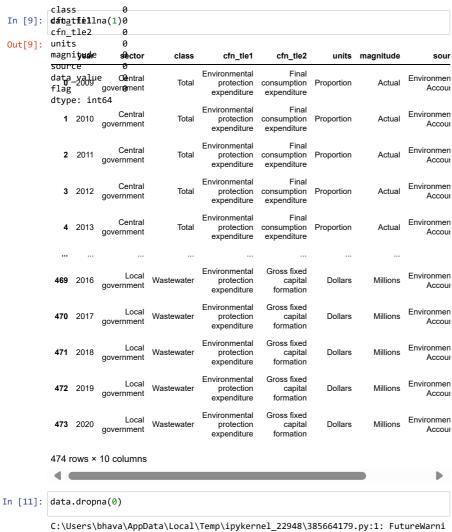
In [1]: das as pd ad_csv(r"C:\Users\bhava\OneDrive\Pictures\Desktop\GPTC\5th SEM\EXCEL\environmer Out[1]: year sector class cfn tle1 cfn tle2 units magnitude sour Environmental Final Central Environmen 0 2009 Total protection consumption Proportion Actual Accour government expenditure expenditure Environmental Central Environmen **1** 2010 Total consumption Proportion Actual protection government Accour expenditure expenditure Environmental Final Central Environmen **2** 2011 protection consumption Proportion Actual government Accour expenditure expenditure Environmental Final Central Environmen 3 2012 Total protection consumption Proportion Actual expenditure expenditure Environmental Final Central 4 2013 Total protection Proportion Actual consumption government Accour expenditure expenditure Environmental Gross fixed Local Environmen 469 2016 Dollars Millions Wastewater protection capital government expenditure formation Environmental Gross fixed Local Environmen Millions 2017 protection capital aovernment Accour expenditure formation Gross fixed Environmental Local Environmen **471** 2018 Wastewater protection capital Dollars Millions government Accour formation expenditure Environmental Gross fixed Environmen Local Millions **472** 2019 Wastewater Dollars protection capital government Accour expenditure formation Environmental Gross fixed Environmen Local **473** 2020 Wastewater capital Dollars Millions protection government Accour formation expenditure 474 rows × 10 columns 1 In [2]: data.head() Out[2]: sector class cfn_tle1 cfn_tle2 units magnitude Final Environmental Central Environmental 0 2009 Total Proportion Actual protection consumption government Accounts expenditure expenditure Environmental Final Central Environmental **1** 2010 Total protection consumption Proportion Actual government Accounts expenditure expenditure Environmental Central Environmental 2 2011 Total protection consumption Proportion Actual government Accounts Environmental Final Environmental Central data0tail60ernment Total protection consumption Proportion Actual In [3]: Accounts expenditure expenditure Out[3]: Environmental Fina Central Central Sector Total Classociction cfaorite impiring the 2 portion to magnitude Environmental characteristics available Accounts Gross Environmenta Millions 469 2016 government capita Accounts expenditure formation Gross Environmental Local fixed Environmental **470** 2017 Wastewater protection Dollars Millions government capital Accounts expenditure formation Environmental Local fixed Environmental **471** 2018 Wastewater protection Dollars Millions government capital expenditure formation Gross Environmental Local fixed Environmental **472** 2019 Wastewater protection Dollars Millions capital government expenditure formation Gross Environmental Local fixed Environmental **473** 2020 Wastewater protection Dollars Millions government capital Accounts expenditure formation In [5]: data.isnull() Out[5]:

In [3]:	d 3 t∂	9ŧaij	Central	Tota		tection c	onsum		portion	Ac		onmental Accounts	
Out[3]:	4 2	0 1∕ear g	Central secto overnment	r Tota	Environ	tection cfA			oortients	maĝn	ittøde ^{Envir}	onmental Source Accounts	e da
	469	2016	Loca	al Wa	astewater	Environm prote expend	ection	Gross fixed capital formation	Dollars	М	illions	vironmenta Accounts	
	470	2017	Loca governmen		astewater	Environm prote expend	ection	Gross fixed capital formation	Dollars	М	illions En	vironmenta Accounts	
	471	2018	Loca governmen	VV:	astewater	Environm prote expend	ection	Gross fixed capital formation	Dollars	М	illions En	vironmenta Accounts	
	472	2019	Loca governmen		astewater	Environm prote expend	ection	Gross fixed capital formation	Dollars	М	illions En	vironmenta Accounts	
	473	2020	Loca		astewater	Environm prote expend	ection	Gross fixed capital formation	Dollars	М	illions En	vironmenta Accounts	
	4												
<pre>In [5]: Out[5]:</pre>	data	.isnu	11()										
		year		lass	cfn_tle1	cfn_tle2	units				ata_value	flag	
	0	False False		alse	False False	False False	False False		lse Fa lse Fa		False False	False False	
	2	False		alse	False	False	False		lse Fa		False	False	
	3	False		alse	False	False	False		lse Fa		False	False	
	4	False	False F	alse	False	False	False	Fa	lse Fa	lse	False	False	
	469	False	False F	alse	False	False	False	Fa	lse Fa	lse	False	False	
	470	False	False F	alse	False	False	False	e Fa	lse Fa	lse	False	False	
	471	False		alse	False	False	False		lse Fa		False	False	
	472 473	False False		alse	False False	False	False		lse Fa Ise Fa		False False	False False	
			10 column		raise	raise	raise	: га	ise га	ise	raise	raise	
In [6]:	data	.isnu	ll().sum	().sı	m()								
Out[6]:	0												
In [7]:			11().sum	()									
Out[7]:	year sect clas	or	0 0 0										
In [9]:	d afb <u>a</u>	t fė1 lı	na(1)0										
Out[9]:	cfn_ unit		0										
	magn sour	i yua le ce	s%ecto	r	class		_tle1	cfn_tl		units	magnitud	e :	sour
	flag	—2009 e: in	gover ø mer		Total	expend	ection diture	Fir consumpti expenditu	on Prope ire	ortion	Actu	al Enviror Ad	nmen
	1	2010	Centra governmen		Total	expend	ection diture	Fir consumpti expenditu	on Propo ire	ortion	Actu	al Enviror Ad	nmen
	2	2011	Centra governmen		Total	expend	ection diture	Fir consumpti expenditu	on Propo ire	ortion	Actu	al Enviror Ad	nmen
	3	2012	Centra governmen		Total	expend	ection diture	Fir consumpti expenditu	on Propo ire	ortion	Actu	al Enviror Ad	nmen
	4	2013	Centra governmen		Total	Environm prote expend	ection	consumpti expenditu	on Prop	ortion 	Actu	al Enviror Ad	nmen
	469	2016	Loca	al w	astewater	Environm prote expend	ental ection	Gross fix capi formati	ed tal D	ollars	Millior	e Enviror	nmen
	470	2017	Loca governmen		astewater	Environm prote expend	ection	Gross fix capi formati	tal D	ollars	Millior	Enviror Ad	nmen
	471	2018	Loca	al . Wa	astewater	Environm prote	ental ection	Gross fix capi		ollars	Millior	enviror	ımen

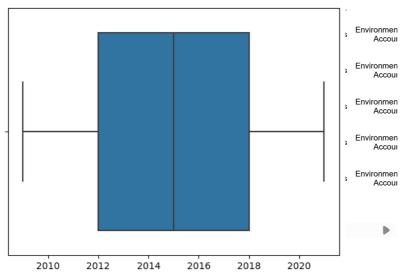


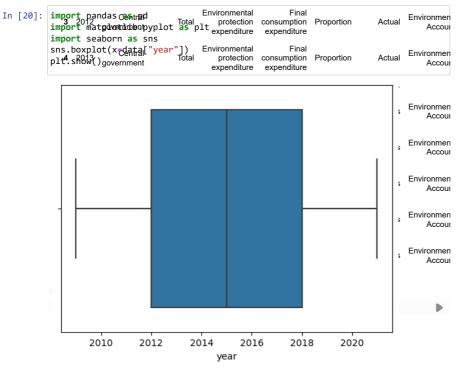
C:\Users\bhava\AppData\Local\Temp\ipykernel_22948\385664179.py:1: FutureWarni
ng: In a future version of pandas all arguments of DataFrame.dropna will be k
eyword-only.
 data.dropna(0)

uata.uropna(e

Out[11]:

sour	magnitude	units	cfn_tle2	cfn_tle1	class	sector	year		
Environmen Accour	Actual	Proportion	Final consumption expenditure	Environmental protection expenditure	Total	Central government	2009	0	
Environmen Accour	Actual	Proportion	Final consumption expenditure	Environmental protection expenditure	Total	Central government	2010	1	
Environmen Accour	Actual	Proportion	Final consumption expenditure	Environmental protection expenditure	Total	Central government	2011	2	
Environmen Accour	Actual	Proportion	Final consumption expenditure	Environmental protection expenditure		ndas Oleatrad t gdvetdib ent aborn as s	rtĭmā	impo	In [20]:
Environmen Accour	Actual	Proportion	Final consumption expenditure	Environmental protection expenditure		ot(x-datal)government	boxp1	sns.	





```
In [26]: import seaborn as sns
         import matplotlib.pyplot as plt
         import pandas as pd
         data = pd.read_csv(r"C:Users/bhava/OneDrive/Pictures/Desktop/GPTC/5th SEM/EXCE
         column1 = df["year"]
column2 = df["class"]
         plt.figure(figsize=(8,9))
         sns.scatterplot(x=column1,y=column2)
         plt.title("scatter plot for Baivariate")
         plt.show()
         {\tt FileNotFoundError}
                                                  Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_22948\4062364621.py in <module>
               2 import matplotlib.pyplot as plt
               3 import pandas as pd
         ----> 4 data = pd.read_csv(r"C:Users/bhava/OneDrive/Pictures/Desktop/GPTC/5th
         SEM/EXCEL/environmental-protection-expenditure-account-2009--2021.csv")
              5 column1 = df["year"]
6 column2 = df["class"]
         kwargs)
                                    stacklevel=stacklevel,
             309
             310
         --> 311
                            return func(*args, **kwargs)
            312
             313
                        return wrapper
```

```
In [26]: import seaborn as sns
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                2 import matplotlib.pyplot as plt
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         SEM/EXCEL/environmental-protection-expenditure-account-2009--2021.csv")
                5 column1 = df["year"]
                6 column2 = df["class"]
          ~\anaconda3\lib\site-packages\pandas\util\_decorators.py in wrapper(*args, **
          kwargs)
              309
                                       stacklevel=stacklevel,
              310
          --> 311
                               return func(*args, **kwargs)
              312
              313
                          return wrapper
          ~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in read_csv(filepa
          th_or_buffer, sep, delimiter, header, names, index_col, usecols, squeeze, pre
          fix, mangle_dupe_cols, dtype, engine, converters, true_values, false_values,
          skipinitialspace, skiprows, skipfooter, nrows, na_values, keep_default_na, na
          _filter, verbose, skip_blank_lines, parse_dates, infer_datetime_format, keep_
         date_col, date_parser, dayfirst, cache_dates, iterator, chunksize, compressio n, thousands, decimal, lineterminator, quotechar, quoting, doublequote, escap
         echar, comment, encoding, encoding_errors, dialect, error_bad_lines, warn_bad
          _lines, on_bad_lines, delim_whitespace, low_memory, memory_map, float_precisi
         on, storage options)
              676
                      kwds.update(kwds_defaults)
             677
          --> 678
                      return read(filepath or buffer, kwds)
             679
              680
          ~\anaconda3\lib\site-packages\pandas\io\parsers\readers.pv in read(filepath
         or_buffer, kwds)
              573
              574
                      # Create the parser.
          --> 575
                      parser = TextFileReader(filepath or buffer, **kwds)
             576
              577
                      if chunksize or iterator:
          ~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in __init__(self,
          f, engine, **kwds)
              930
                          self.handles: IOHandles | None = None
             931
          --> 932
                          self._engine = self._make_engine(f, self.engine)
             933
             934
                      def close(self):
          ~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in _make_engine(se
          lf, f, engine)
             1214
                               # "Union[str, PathLike[str], ReadCsvBuffer[bytes], ReadCs
          vBuffer[str]]"
            1215
                                  "str", "bool", "Any", "Any", "Any", "Any", "Any"
          -> 1216
                               self.handles = get_handle( # type: ignore[call-overload]
             1217
                                   mode,
             1218
          ~\anaconda3\lib\site-packages\pandas\io\common.py in get_handle(path_or_buf,
         mode, encoding, compression, memory_map, is_text, errors, storage_options)
784 if ioargs.encoding and "b" not in ioargs.mode:
              785
                               # Encoding
          --> 786
                              handle = open(
              787
                                   handle,
              788
                                   ioargs.mode,
          FileNotFoundError: [Errno 2] No such file or directory: 'C:Users/bhaya/OneDri
          ve/Pictures/Desktop/GPTC/5th SEM/EXCEL/environmental-protection-expenditure-a
         ccount-2009--2021.csv
```

```
934
             def close(self):
~\anaconda3\lib\site-packages\pandas\io\parsers\readers.py in _make_engine(se
lf, f, engine)
   1214
                      # "Union[str, PathLike[str], ReadCsvBuffer[bytes], ReadCs
vBuffer[str]]"
                      # , "str", "bool", "Any", "Any", "Any", "Any", "Any"
self.handles = get_handle( # type: ignore[call-overload]
   1215
-> 1216
   1217
                          f,
   1218
                          mode,
# Encoding
    785
                      handle = open(
--> 786
                          handle,
    787
                          ioargs.mode,
    788
FileNotFoundError: [Errno 2] No such file or directory: 'C:Users/bhava/OneDri ve/Pictures/Desktop/GPTC/5th SEM/EXCEL/environmental-protection-expenditure-a
ccount-2009--2021.csv'
```

In []: