TENNESSEE STATE UNIVERSITY USING PYTHON AND DATA FROM THE SCHOOL WEBSITES by Erika Harrell **Executive Summary** In [1]: #importing libraries for project #python's lxml library parses xml and html files from lxml import html #python requests library gets data from web pages import requests #libraries for data wrangling & cleaning import pandas as pd import numpy as np import datetime as dt #libraries for data visualization import matplotlib.pyplot as plt import seaborn as sns #libraries for machine learning from sklearn.tree import DecisionTreeClassifier # Decision tree algorithm from sklearn.model selection import train test split # data split from sklearn.metrics import accuracy score # evaluation metric from sklearn import tree Web Scraping-getting data on location of games and scores from TSU websites Data Wrangling-putting data from TSU websites into lists (one list per year) In [2]: #2019 data #use requests.get() to get web page with 2019 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/E018AECE-A1B8-46E7-B1B7-46FF #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2019 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2019) ['Nov 23, 2019\xa0\xa0', 'Cookeville, Tenn. \xa0\xa0', 'Tennessee State 37, Tennessee Tech 27\xa0\xa0', '\xa 0', 'Nov 16, 2019\xa0\xa0', 'Martin, Tenn. \xa0\xa0', 'UT Martin 28, Tennessee State 17\xa0\xa0', '\xa0', 'Nov 09, 2019\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'EIU 49, Tennessee State 38\xa0\xa0', '\xa0', 'Nov 02, 2019\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'SEMO 32, Tennessee State 13\xa0\xa0', '\xa0', 'Oct 19, 2019\xa0 \xa0', 'Jacksonville, Ala. \xa0\xa0', 'Jacksonville State 31, Tennessee State 23\xa0\xa0', '\xa0', 'Sep 28, 20 19\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Eastern Kentucky 42, Tennessee State 16\xa0\xa0', '\xa0', 'Sep 2 1, 2019\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'UAPB 37, Tennessee State 31\xa0\xa0', '\xa0', 'Sep 14, 2019 \xa0\xa0', 'Memphis, Tenn. \xa0\xa0', 'Jackson State 49, Tennessee State 44\xa0\xa0', '\xa0', 'Sep 7, 2019 \xa0\xa0', 'Murfreesboro, TN \xa0\xa0', 'Middle Tennessee 45, Tennessee State 26\xa0\xa0', '\xa0', 'Aug 31, 2019\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 26, Mississippi Valley 20\xa0\xa0', '\xa0'] In [3]: #get rid of extra text and spaces in list #put text for school names into format that's compatible for data frame schedule2019=[s.replace("UAPB","Pine Bluff") for s in schedule2019] schedule2019=[t.replace("SEMO", "Southeast Missouri") for t in schedule2019] schedule2019=[u.replace("EIU", "Eastern Illinois") for u in schedule2019] schedule2019=[v.replace("UT","Tennessee") for v in schedule2019] schedule2019=[w.replace(".", "") for w in schedule2019] schedule2019=[x.replace("\xa0", "") for x in schedule2019] schedule2019=[y.replace(",","") for y in schedule2019] schedule2019=[z.strip() for z in schedule2019] print(schedule2019) ['Nov 23 2019', 'Cookeville Tenn', 'Tennessee State 37 Tennessee Tech 27', '', 'Nov 16 2019', 'Martin Tenn', 'T ennessee Martin 28 Tennessee State 17', '', 'Nov 09 2019', 'Nashville Tenn', 'Eastern Illinois 49 Tennessee Sta te 38', '', 'Nov 02 2019', 'Nashville Tenn', 'Southeast Missouri 32 Tennessee State 13', '', 'Oct 19 2019', 'Na shville Tenn', 'Tennessee State 26 Austin Peay 24', '', 'Oct 12 2019', 'Nashville Tenn', 'Murray State 31 Tenne ssee State 17', '', 'Oct 05 2019', 'Jacksonville Ala', 'Jacksonville State 31 Tennessee State 23', '', 'Sep 28 2019', 'Richmond Ky', 'Eastern Kentucky 42 Tennessee State 16', '', 'Sep 21 2019', 'Nashville Tenn', 'Pine Bluf f 37 Tennessee State 31', '', 'Sep 14 2019', 'Memphis Tenn', 'Jackson State 49 Tennessee State 44', '', 'Sep 7 2019', 'Murfreesboro TN', 'Middle Tennessee 45 Tennessee State 26', '', 'Aug 31 2019', 'Nashville Tenn', 'Tenne ssee State 26 Mississippi Valley 20', ''] In [4]: #2018 data #use requests.get() to get web page with 2018 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/125803E8-C113-4C2F-890C-645I #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2018 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2018) ['Nov 17, 2018\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 31, UTM 28\xa0\xa0', '\xa0', 'Nov 10, 2018\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Jacksonville State 41, Tennessee State 14\xa0\xa0', '\xa0', '11 -03-18 \xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'Southeast Missouri 38, Tennessee State 21\xa0\xa0', '\xa 0', 'Oct 20, 2018\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 41, Tennessee Tech 14\xa0\xa0', '\xa0', 'Oct 13, 2018\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Murray St. 45, Tennessee State 21\xa0\xa0', '\xa0', 'Oct 06, 2018\xa0\xa0', 'Clarksville, Tenn. \xa0\xa0', 'Austin Peay 49, Tennessee State 34\xa0\xa0', '\xa0', 'Sep 29, 2018\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Vanderbilt 31, Tennessee State 27\xa0\xa0', '\xa0', 'Sep 22, 2018\xa0\xa0', 'Charleston, Ill. \xa0\xa0', 'Tennessee State 41, Eastern Illinois 40\xa0\xa 0', '\xa0', 'Sep 01, 2018\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 34, Bethune-Cookman 3\xa0 \xa0', '\xa0'] In [5]: #get rid of extra text and spaces in list #put text for date, school names, and city into format that's compatible for data frame schedule2018=[q.replace('Vanderbilt','Vanderbilt University') for q in schedule2018] schedule2018=[p.replace('Cape Girardeau', 'CapeGirardeau') for p in schedule2018] schedule2018=[r.replace('11-03-18','Nov 03 2018') for r in schedule2018] schedule2018=[s.replace("UTM", "Tennessee Martin") for s in schedule2018] schedule2018=[t.replace("SEMO","Southeast Missouri") for t in schedule2018] schedule2018=[u.replace("Bethune-Cookman", "Bethune Cookman") for u in schedule2018] schedule2018=[w.replace(".", "") for w in schedule2018] schedule2018=[x.replace("\xa0", "") for x in schedule2018] schedule2018=[y.replace(",","") for y in schedule2018] schedule2018=[z.strip() for z in schedule2018] print(schedule2018) ['Nov 17 2018', 'Nashville Tenn', 'Tennessee State 31 Tennessee Martin 28', '', 'Nov 10 2018', 'Nashville Ten n', 'Jacksonville State 41 Tennessee State 14', '', 'Nov 03 2018', 'CapeGirardeau Mo', 'Southeast Missouri 38 T ennessee State 21', '', 'Oct 20 2018', 'Nashville TN', 'Tennessee State 41 Tennessee Tech 14', '', 'Oct 13 201 8', 'Murray Ky', 'Murray St 45 Tennessee State 21', '', 'Oct 06 2018', 'Clarksville Tenn', 'Austin Peay 49 Tenn essee State 34', '', 'Sep 29 2018', 'Nashville Tenn', 'Vanderbilt University 31 Tennessee State 27', '', 'Sep 2 2 2018', 'Charleston Ill', 'Tennessee State 41 Eastern Illinois 40', '', 'Sep 01 2018', 'Nashville Tenn', 'Tenn essee State 34 Bethune Cookman 3', ''] In [6]: #2017 data #use requests.get() to get web page with 2017 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/1EEBECA9-B01E-43AB-B6EB-AFDE #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2017 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2017) ['Nov 16, 2017\xa0\xa0', 'Jacksonville, Ala. \xa0\xa0', 'Jacksonville State 36, Tennessee State 6\xa0\xa0', '\xa0', 'Nov 11, 2017\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 23, SEMO 20\xa0\xa0', '\xa0', 'Nov 04, 2017\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 60, VUL 0\xa0\xa0', '\xa0', 'Oct 28, 2 017\xa0\xa0', 'Cookeville, Tenn. \xa0\xa0', 'Tennessee Tech 30, Tennessee State 26\xa0\xa0', '\xa0', 'Oct 14, 2017\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Austin Peay 21, Tennessee State 17\xa0\xa0', '\xa0', 'Oct 07, 2 017\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Tennessee State 45, Eastern Kentucky 21\xa0\xa0', '\xa0', 'Sep 3 \xa0\xa0', 'Eastern Illinois 19, Tennessee State 16\xa0\xa0', '\xa0', 'S 0,  $2017 \times a0 \times a0'$ , 'Nashville, Tenn. ep 23, 2017\xa0\xa0', 'Martin, Tenn. \xa0\xa0', 'UT Martin 31, Tennessee State 16\xa0\xa0', '\xa0', 'Sep 17, 2017\xa0\xa0', 'Tampa, Fla \xa0\xa0', 'Tennessee State 24, Florida A&M 13\xa0\xa0', '\xa0', 'Sep 0 9, 2017 $\times$ a0 $\times$ a0', 'Memphis, Tenn. \xa0\xa0', 'Tennessee State 17, Jackson State 15\xa0\xa0', '\xa0', 'Aug 31, 2017\xa0\xa0', 'Atlanta, Ga. \xa0\xa0', 'Tennessee State 17, Georgia State 10\xa0\xa0', '\xa0'] In [7]: #get rid of extra text and spaces in list #put text for school names into format that's compatible for data frame schedule2017=[t.replace("VUL", "VirginiaU Lynchburg") for t in schedule2017] schedule2017=[u.replace("SEMO", "Southeast Missouri") for u in schedule2017] schedule2017=[v.replace("UT", "Tennessee") for v in schedule2017] schedule2017=[w.replace(".", "") for w in schedule2017]  $schedule2017 = [x.replace("\xa0", "") \ \, \textbf{for} \ \, x \ \, \textbf{in} \ \, schedule2017]$ schedule2017=[y.replace(",","") for y in schedule2017] schedule2017=[z.strip() for z in schedule2017] print(schedule2017) ['Nov 16 2017', 'Jacksonville Ala', 'Jacksonville State 36 Tennessee State 6', '', 'Nov 11 2017', 'Nashville Te nn', 'Tennessee State 23 Southeast Missouri 20', '', 'Nov 04 2017', 'Nashville Tenn', 'Tennessee State 60 Virgi niaU Lynchburg 0', '', 'Oct 28 2017', 'Cookeville Tenn', 'Tennessee Tech 30 Tennessee State 26', '', 'Oct 14 20 17', 'Nashville Tenn', 'Austin Peay 21 Tennessee State 17', '', 'Oct 07 2017', 'Richmond Ky', 'Tennessee State 45 Eastern Kentucky 21', '', 'Sep 30 2017', 'Nashville Tenn', 'Eastern Illinois 19 Tennessee State 16', '', 'Se p 23 2017', 'Martin Tenn', 'Tennessee Martin 31 Tennessee State 16', '', 'Sep 17 2017', 'Tampa Fla', 'Tennessee State 24 Florida A&M 13', '', 'Sep 09 2017', 'Memphis Tenn', 'Tennessee State 17 Jackson State 15', '', 'Aug 31 2017', 'Atlanta Ga', 'Tennessee State 17 Georgia State 10', ''] In [8]: #use requests.get() to get web page with 2016 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/F8A9B17C-4555-45FB-AAF3-D889 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2016 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2016) \xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'Tennessee State 32, Southeast Missouri 31\xa0\xa0', ['11-19-16 '\xa0', 'Nov 12, 2016\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee Tech 44, Tennessee State 16\xa0\xa 0', '\xa0', 'Nov 05, 2016\xa0\xa0', 'Clarksville, Tenn. \xa0\xa0', 'Tennessee State 41, Austin Peay 40\xa0\xa 0', '\xa0', 'Oct 29, 2016\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Murray St. 38, Tennessee State 31\xa0\xa 0', '\xa0', 'Oct 22, 2016\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Vanderbilt 35, remmedded 51114 \xa0\xa0', 'Tennessee State 35, Eastern Kentucky 28\xa \xa0\xa0', 'Vanderbilt 35, Tennessee State 17\xa0\xa 0', '\xa0', 'Oct 15, 2016\xa0\xa0', 'Nashville, Tenn. 0\xa0', '\xa0', 'Oct 08, 2016\xa0\xa0', 'Charleston, Ill. \xa0\xa0', 'Eastern Illinois 35, Tennessee State 3 4\xa0\xa0', '\xa0', 'Oct 01, 2016\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 34, UT Martin 30\x a0\xa0', '\xa0', 'Sep 17, 2016\xa0\xa0', 'Daytona Beach, Fla. \xa0\xa0', 'Tennessee State 31, Bethune-Cookman 2  $4 \times 30 \times 30'$ , 'Xa0', 'Sep 10, 2016\xa0\xa0', 'Memphis, Tenn. \xa0\xa0', 'Tennessee State 40, Jackson State 26\xa0\xa0', '\xa0', 'Sep 03, 2016\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 44, Arkansas-Pine Bluff 0\xa0\xa0', '\xa0'] In [9]: #get rid of extra text and spaces in list #put text for date, school names, and cities into format that's compatible for data frame schedule2016=[o.replace('Pine Bluff', "PineBluff") for o in schedule2016] schedule2016=[p.replace('11-19-16','Nov 19 2016') for p in schedule2016] schedule2016=[r.replace('Cape Girardeau', 'CapeGirardeau') for r in schedule2016] schedule2016=[s.replace("Vanderbilt","Vanderbilt University") for s in schedule2016] schedule2016=[t.replace("UT", "Tennessee") for t in schedule2016] schedule2016=[u.replace("Daytona Beach", "DaytonaBeach") for u in schedule2016] schedule2016=[v.replace("-"," ") for v in schedule2016] schedule2016=[w.replace(".", "") for w in schedule2016] schedule2016=[x.replace("\xa0", "") for x in schedule2016] schedule2016=[y.replace(",","") for y in schedule2016] schedule2016=[z.strip() for z in schedule2016] print(schedule2016) ['Nov 19 2016', 'CapeGirardeau Mo', 'Tennessee State 32 Southeast Missouri 31', '', 'Nov 12 2016', 'Nashville T N', 'Tennessee Tech 44 Tennessee State 16', '', 'Nov 05 2016', 'Clarksville Tenn', 'Tennessee State 41 Austin P eay 40', '', 'Oct 29 2016', 'Murray Ky', 'Murray St 38 Tennessee State 31', '', 'Oct 22 2016', 'Nashville Ten n', 'Vanderbilt University 35 Tennessee State 17', '', 'Oct 15 2016', 'Nashville Tenn', 'Tennessee State 35 Eas tern Kentucky 28', '', 'Oct 08 2016', 'Charleston Ill', 'Eastern Illinois 35 Tennessee State 34', '', 'Oct 01 2 016', 'Nashville Tenn', 'Tennessee State 34 Tennessee Martin 30', '', 'Sep 17 2016', 'DaytonaBeach Fla', 'Tenne ssee State 31 Bethune Cookman 24', '', 'Sep 10 2016', 'Memphis Tenn', 'Tennessee State 40 Jackson State 26', '', 'Sep 03 2016', 'Nashville Tenn', 'Tennessee State 44 Arkansas PineBluff 0', ''] In [10]: #2015 data #use requests.get() to get web page with 2015 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/B8713968-6888-4BB4-B12E-9BA4 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2015 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2015) ['Nov 21, 2015\xa0\xa0', 'Cookeville, Tenn. \xa0\xa0', 'Tennessee Tech 30, Tennessee State 24\xa0\xa0', '\xa 0', 'Nov 07, 2015\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Murray State 46, Tennessee State 43\xa0\xa0', '\xa 0', 'Oct 31, 2015\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 20, Austin Peay 6\xa0\xa0', '\xa 0', 'Oct 24, 2015\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Eastern Kentucky 45, Tennessee State 21\xa0\xa0', '\xa0', 'Oct 17, 2015\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Eastern Illinois 25, Tennessee State 22\xa0\xa 0', '\xa0', 'Oct 10, 2015\xa0\xa0', 'Martin, Tenn. \xa0\xa0', 'UT Martin 28, Tennessee State 14\xa0\xa0', '\xa0', 'Sep 26, 2015\xa0\xa0', 'Tallahassee, Fla. \xa0\xa0', 'Tennessee State 30, FAMU 14\xa0\xa0', '\xa0', 'Sep 19, 2015\xa0\xa0', 'Jacksonville, Ala. \xa0\xa0', 'Jacksonville State 48, Tennessee State 13\xa0\xa0', '\xa0', 'Sep 12, 2015\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 35, Jackson State Tigers 25\xa 0\xa0', '\xa0', 'Sep 06, 2015\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 24, Alabama State 14\x a0\xa0', '\xa0'] In [11]: #get rid of extra text and spaces in list #put text for school names into format that's compatible for data frame schedule2015=[s.replace("Tigers","") for s in schedule2015] schedule2015=[t.replace("UT", "Tennessee") for t in schedule2015] schedule2015=[u.replace("FAMU","Florida A&M") for u in schedule2015] schedule2015=[v.replace("-"," ") for v in schedule2015] schedule2015=[w.replace(".", "") for w in schedule2015] schedule2015=[x.replace("\xa0", "") for x in schedule2015] schedule2015=[y.replace(",","") for y in schedule2015] schedule2015=[z.strip() for z in schedule2015] print(schedule2015) ['Nov 21 2015', 'Cookeville Tenn', 'Tennessee Tech 30 Tennessee State 24', '', 'Nov 07 2015', 'Nashville Tenn', 'Murray State 46 Tennessee State 43', '', 'Oct 31 2015', 'Nashville Tenn', 'Tennessee State 20 Austin Peay 6', '', 'Oct 24 2015', 'Richmond Ky', 'Eastern Kentucky 45 Tennessee State 21', '', 'Oct 17 2015', 'Nashville Ten n', 'Eastern Illinois 25 Tennessee State 22', '', 'Oct 10 2015', 'Martin Tenn', 'Tennessee Martin 28 Tennessee State 14', '', 'Sep 26 2015', 'Tallahassee Fla', 'Tennessee State 30 Florida A&M 14', '', 'Sep 19 2015', 'Jacks onville Ala', 'Jacksonville State 48 Tennessee State 13', '', 'Sep 12 2015', 'Memphis TN', 'Tennessee State 35 Jackson State 25', '', 'Sep 06 2015', 'Nashville Tenn', 'Tennessee State 24 Alabama State 14', ''] In [12]: #2014 data #use requests.get() to get web page with 2014 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/26C45AE2-D036-475D-A4EF-38BE #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2014 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2014) ['Nov 22, 2014\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Tennessee State 48, Murray St. 33\xa0\xa0', '\xa0', 'Nov 08, 2014\xa0\xa0', 'Clarksville, Tenn. \xa0\xa0', 'Tennessee State 31, Austin Peay 27\xa0\xa0', '\xa0', 'Nov 01, 2014\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Eastern Kentucky 56, Tennessee State 42\xa0\xa0', '\xa 0', 'Oct 25, 2014\xa0\xa0', 'Charleston, Ill. \xa0\xa0', 'Eastern Illinois 28, Tennessee State 3\xa0\xa0', '\xa0', 'Oct 18, 2014\xa0\xa0', 'Hale Stadium \xa0\xa0', 'UT Martin 21, Tennessee State 16\xa0\xa0', '\xa0', 'Oct 11, 2014\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Jacksonville State 27, Tennessee State 20\xa0\xa0\xa0' \xa0\xa0', 'UT Martin 21, Tennessee State 16\xa0\xa0', '\x 0', '\xa0', '10-04-14 \xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'Southeast Missouri 28, Tennessee State 21 \xa0\xa0', '\xa0', 'Sep 27, 2014\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 27, Florida A&M 7\x a0\xa0', '\xa0', 'Sep 20, 2014\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 10, Tennessee Tech 7 \xa0\xa0', '\xa0', 'Sep 13, 2014\xa0\xa0', 'Memphis, Tenn. \xa0\xa0', 'Tennessee State 35, Jackson State 7 \xa0\xa0', '\xa0', 'Sep 06, 2014\xa0\xa0', 'Montgomery, Ala. \xa0\xa0', 'Alabama State 27, Tennessee State 2  $1 \times 0 \times 0'$ , ' $\times 0'$ , 'Aug 30, 2014 \ $\times 0'$ , 'Nashville, Tenn. \ $\times 0 \times 0'$ , 'Tennessee State 58, Edward Waters 6\xa0\xa0', '\xa0'] In [13]: #get rid of extra text and spaces in list #put text for date and city into format that's compatible for data frame #correct location for a game at TSU schedule2014=[s.replace("Hale Stadium", "Nashville, Tenn.") for s in schedule2014] schedule2014=[t.replace("10-04-14","Oct 04, 2014") for t in schedule2014] schedule2014=[u.replace("Cape Girardeau", "CapeGirardeau") for u in schedule2014] schedule2014=[v.replace("-"," ") for v in schedule2014] schedule2014=[w.replace(".", "") for w in schedule2014]  $schedule2014=[x.replace("\xa0", "") for x in schedule2014]$ schedule2014=[y.replace(",","") for y in schedule2014] schedule2014=[z.strip() for z in schedule2014] print(schedule2014) ['Nov 22 2014', 'Murray Ky', 'Tennessee State 48 Murray St 33', '', 'Nov 08 2014', 'Clarksville Tenn', 'Tenness ee State 31 Austin Peay 27', '', 'Nov 01 2014', 'Nashville Tenn', 'Eastern Kentucky 56 Tennessee State 42', '', 'Oct 25 2014', 'Charleston Ill', 'Eastern Illinois 28 Tennessee State 3', '', 'Oct 18 2014', 'Nashville Tenn', 'UT Martin 21 Tennessee State 16', '', 'Oct 11 2014', 'Nashville Tenn', 'Jacksonville State 27 Tennessee State 20', '', 'Oct 04 2014', 'CapeGirardeau Mo', 'Southeast Missouri 28 Tennessee State 21', '', 'Sep 27 2014', 'Nas hville Tenn', 'Tennessee State 27 Florida A&M 7', '', 'Sep 20 2014', 'Nashville TN', 'Tennessee State 10 Tennes see Tech 7', '', 'Sep 13 2014', 'Memphis Tenn', 'Tennessee State 35 Jackson State 7', '', 'Sep 06 2014', 'Montg omery Ala', 'Alabama State 27 Tennessee State 21', '', 'Aug 30 2014', 'Nashville Tenn', 'Tennessee State 58 Edw ard Waters 6', ''] In [14]: #2013 data #use requests.get() to get web page with 2013 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/E394BBB1-387B-4C6A-9B21-E33I #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2013 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2013) ['Dec 07, 2013\xa0\xa0', 'Charleston, Ill. \xa0\xa0', 'Eastern Illinois 51, Tennessee State 10\xa0\xa0', '\xa0', 'Nov 30, 2013\xa0\xa0', 'Indianapolis, Ind. \xa0\xa0', 'Tennessee State 31, Butler  $0\times a0\times a0'$ , '\xa0', 'Nov 30, 2013\xa0\xa0', '\xa0', 'Nov 30, 2013\xa0\xa0', 'Indianapolis, Ind. \xa0\xa0', 'Tennessee State 31, Butler  $0\times a0\times a0'$ , '\xa0', 'Nov 30, 2013\xa0', '\xa0', 'Nov 30', 2013\xa0', '\xa0', '\xa0' ov 09, 2013\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 31, Austin Peay 6\xa0\xa0', '\xa0', 'Nov 16, 2013\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 17, Murray State 10\xa0\xa0', '\xa0', 'Nov 02, 2013\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Eastern Kentucky 44, Tennessee State 0\xa0\xa0', '\xa0', 'O ct 26, 2013 $\times$ a0 $\times$ a0', 'Nashville, Tenn.  $\times$ a0 $\times$ a0', 'Eastern Illinois 34, Tennessee State 16 $\times$ a0 $\times$ a0', ' $\times$ a0 0', 'Oct 19, 2013\xa0\xa0', 'Martin, Tenn. \xa0\xa0', 'Tennessee State 29, UT Martin 15\xa0\xa0', '\xa0', 'Oct 12, 2013\xa0\xa0', 'Jacksonville, Ala. \xa0\xa0', 'Tennessee State 31, Jacksonville State 15\xa0\xa0', '\xa0', 'Oct 05, 2013\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 40, Southeast Missouri 16\xa0 \xa0', '\xa0', 'Sep 28, 2013\xa0\xa0', 'St. Louis, Missouri \xa0\xa0', 'Tennessee State 73, Central State 6\xa0  $\xa0'$ , ' $\xa0'$ , 'Sep 21, 2013 $\xa0'$ xa0', 'Cookeville, Tenn.  $\xa0\xa0'$ , 'Tennessee State 41, Tennessee Tech 21 $\xa0'$ xa0', 'Tennessee State 41, Tennessee Tech 21 $\xa0'$ xa0', 'Sep 21, 2013 $\xa0'$ xa0', 'Sep 21, 2013 $\xa0'$ xa0', 'Cookeville, Tennessee State 41, Tennessee Tech 21 $\xa0'$ xa0', 'Sep 21, 2013 $\xa0'$ xa0', 'Sep 21, a0\xa0', '\xa0', 'Sep 14, 2013\xa0\xa0', 'Memphis, Tenn. \xa0\xa0', 'Tennessee State 26, Jackson State Tig ers 16\xa0\xa0', '\xa0', 'Sep 07, 2013\xa0\xa0', 'Tallahassee, Fla. \xa0\xa0', 'Tennessee State 27, Florida A &M 7\xa0\xa0', '\xa0', 'Sep 01, 2013\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Bethune-Cookman 12, Tennessee S tate 9\xa0\xa0', '\xa0'] In [15]: #get rid of extra text and spaces in list #put text for school names and city into format that's compatible for data frame schedule2013=[r.replace("St. Louis", "StLouis") for r in schedule2013] schedule2013=[s.replace("Butler", "Butler University") for s in schedule2013] schedule2013=[t.replace("UT", "Tennessee") for t in schedule2013] schedule2013=[u.replace("Tigers","") for u in schedule2013] schedule2013=[v.replace("-"," ") for v in schedule2013]
schedule2013=[w.replace(".", "") for w in schedule2013]  $schedule2013 = [x.replace("\xa0", "") \ \, \textbf{for} \ \, x \ \, \textbf{in} \ \, schedule2013]$ schedule2013=[y.replace(",","") for y in schedule2013] schedule2013=[z.strip() for z in schedule2013] print(schedule2013) ['Dec 07 2013', 'Charleston Ill', 'Eastern Illinois 51 Tennessee State 10', '', 'Nov 30 2013', 'Indianapolis In d', 'Tennessee State 31 Butler University O', '', 'Nov 09 2013', 'Nashville Tenn', 'Tennessee State 31 Austin P eay 6', '', 'Nov 16 2013', 'Nashville Tenn', 'Tennessee State 17 Murray State 10', '', 'Nov 02 2013', 'Richmond Ky', 'Eastern Kentucky 44 Tennessee State O', '', 'Oct 26 2013', 'Nashville Tenn', 'Eastern Illinois 34 Tenness ee State 16', '', 'Oct 19 2013', 'Martin Tenn', 'Tennessee State 29 Tennessee Martin 15', '', 'Oct 12 2013', 'J acksonville Ala', 'Tennessee State 31 Jacksonville State 15', '', 'Oct 05 2013', 'Nashville Tenn', 'Tennessee S tate 40 Southeast Missouri 16', '', 'Sep 28 2013', 'StLouis Missouri', 'Tennessee State 73 Central State 6', '', 'Sep 21 2013', 'Cookeville Tenn', 'Tennessee State 41 Tennessee Tech 21', '', 'Sep 14 2013', 'Memphis Ten n', 'Tennessee State 26 Jackson State 16', '', 'Sep 07 2013', 'Tallahassee Fla', 'Tennessee State 27 Florida A &M 7', '', 'Sep 01 2013', 'Nashville Tenn', 'Bethune Cookman 12 Tennessee State 9', ''] In [16]: #2012 data #use requests.get() to get web page with 2012 data page = requests.get('https://tennstate\_ftp.sidearmsports.com/custompages/tsutigers/BDF8C4F3-D7B6-4D50-847F-922 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2012 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2012) ['Nov 17, 2012\xa0\xa0', 'Martin, Tenn. \xa0\xa0', 'UT Martin 35, Tennessee State 26\xa0\xa0', '\xa0', 'N ov 03, 2012\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Murray State 49, Tennessee State 28\xa0\xa0', '\xa0', 'O ct 27, 2012\xa0\xa0', 'Nashville, Tennessee\xa0\xa0', 'Tennessee State 22, Tennessee Tech 21\xa0\xa0', '\xa0', 'Oct 20, 2012\xa0\xa0', 'Jacksonville, Ala. \xa0\xa0', 'Jacksonville State 31, Tennessee State 28\xa0\xa0', '\xa0', 'Oct 13, 2012\xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'Tennessee State 40, Southeast Missouri 28\xa0 \xa0', '\xa0', 'Oct 05, 2012\xa0\xa0', 'Nashville, Tennessee\xa0\xa0', 'Tennessee State 23, Eastern Kentucky 20 \xa0\xa0', '\xa0', 'Sep 29, 2012\xa0\xa0', 'Nashville, Tennessee\xa0\xa0', 'Tennessee State 40, Arkansas Pine B luff 13\xa0\xa0', '\xa0', 'Sep 22, 2012\xa0\xa0', 'Daytona Beach, Fla. \xa0\xa0', 'Tennessee State 21, Bethune-Cookman 14\xa0\xa0', '\xa0', 'Sep 15, 2012\xa0\xa0', 'Nashville, Tennessee\xa0\xa0', 'Tennessee State 34, Austi n Peay 14\xa0\xa0', '\xa0', 'Sep 08, 2012\xa0\xa0', 'Memphis. Tennessee \xa0\xa0', 'Tennessee State 38, Jackso n State 12\xa0\xa0', '\xa0', 'Sep 01, 2012\xa0\xa0', 'Nashville, Tennessee\xa0\xa0', 'Tennessee State 17, Flori da A&M 14 $\times$ a0 $\times$ a0', ' $\times$ a0'] In [17]: #get rid of extra text and spaces in list #put text for school names and cities into format that's compatible for data frame schedule2012=[r.replace("Cape Girardeau", "CapeGirardeau") for r in schedule2012] schedule2012=[s.replace("Daytona Beach","DaytonaBeach") for s in schedule2012] schedule2012=[t.replace("UT","Tennessee") for t in schedule2012] schedule2012=[u.replace("Pine Bluff","PineBluff") for u in schedule2012] schedule2012=[v.replace("-"," ") for v in schedule2012] schedule2012=[w.replace(".", "") for w in schedule2012] schedule2012=[x.replace("\xa0", "") for x in schedule2012] schedule2012=[y.replace(",","") for y in schedule2012] schedule2012=[z.strip() for z in schedule2012] print(schedule2012) ['Nov 17 2012', 'Martin Tenn', 'Tennessee Martin 35 Tennessee State 26', '', 'Nov 03 2012', 'Murray Ky', 'Murra y State 49 Tennessee State 28', '', 'Oct 27 2012', 'Nashville Tennessee', 'Tennessee State 22 Tennessee Tech 2 1', '', 'Oct 20 2012', 'Jacksonville Ala', 'Jacksonville State 31 Tennessee State 28', '', 'Oct 13 2012', 'Cape Girardeau Mo', 'Tennessee State 40 Southeast Missouri 28', '', 'Oct 05 2012', 'Nashville Tennessee', 'Tennessee State 23 Eastern Kentucky 20', '', 'Sep 29 2012', 'Nashville Tennessee', 'Tennessee State 40 Arkansas PineBluff 13', '', 'Sep 22 2012', 'DaytonaBeach Fla', 'Tennessee State 21 Bethune Cookman 14', '', 'Sep 15 2012', 'Nashvi lle Tennessee', 'Tennessee State 34 Austin Peay 14', '', 'Sep 08 2012', 'Memphis Tennessee', 'Tennessee State 3 8 Jackson State 12', '', 'Sep 01 2012', 'Nashville Tennessee', 'Tennessee State 17 Florida A&M 14', ''] In [18]: #2011 data #use requests.get() to get web page with 2011 data page = requests.get('https://tennstate\_ftp.sidearmsports.com/custompages/tsutigers/CA835442-6528-4937-854B-D964 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2011 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2011) ['Nov 19, 2011\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Jacksonville State 38, Tennessee State 16\xa0\xa0', '\xa0', 'Nov 12, 2011\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 35, UT Martin 30\xa0\xa0', '\xa0', '\ a0', 'Nov 05, 2011\xa0\xa0', 'Charleston, Ill. \xa0\xa0', 'Tennessee State 18, Eastern Illinois 17\xa0\xa0', '\xa0', 'Oct 22, 2011\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Eastern Kentucky 33, Tennessee State 22\xa0\xa 0', '\xa0', 'Oct 15, 2011\xa0\xa0', 'Cookeville, Tenn. \xa0\xa0', 'Tennessee State 42, Tennessee Tech 40\xa0 \xa0', '\xa0', 'Oct 08, 2011\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 55, Southeast Missouri  $3\xa0\xa0'$ , '\xa0', 'Oct 01, 2011\xa0\xa0', 'Clarksville, Tenn. \xa0\xa0', 'Austin Peay 37, Tennessee State 34 \xa0\xa0', '\xa0', 'Sep 24, 2011\xa0\xa0', 'USAFA, Colo. \xa0\xa0', 'Air Force 63, Tennessee State 24\xa 0\xa0', '\xa0', 'Sep 17, 2011\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Murray State 58, Tennessee State 27\xa \xa0\xa0', 'Jackson State 35, Tennessee State 29\x 0\xa0', '\xa0', 'Sep 10, 2011\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 33, Southern U. 7\xa0 a0\xa0', '\xa0', 'Sep 03, 2011\xa0\xa0', 'Nashville, TN \xa0', '\xa0'] In [19]: #get rid of extra text and spaces in list #put text for school names into format that's compatible for data frame schedule2011=[r.replace("USAFA","AirForceAcademy") for r in schedule2011] schedule2011=[s.replace("UT","Tennessee") for s in schedule2011] schedule2011=[t.replace("Southern U.", "Southern University") for t in schedule2011] schedule2011=[v.replace("-"," ") for v in schedule2011] schedule2011=[w.replace(".", "") for w in schedule2011] schedule2011=[x.replace("\xa0", "") for x in schedule2011] schedule2011=[y.replace(",","") for y in schedule2011] schedule2011=[z.strip() for z in schedule2011] print(schedule2011) ['Nov 19 2011', 'Nashville TN', 'Jacksonville State 38 Tennessee State 16', '', 'Nov 12 2011', 'Nashville Ten n', 'Tennessee State 35 Tennessee Martin 30', '', 'Nov 05 2011', 'Charleston Ill', 'Tennessee State 18 Eastern Illinois 17', '', 'Oct 22 2011', 'Richmond Ky', 'Eastern Kentucky 33 Tennessee State 22', '', 'Oct 15 2011', 'C ookeville Tenn', 'Tennessee State 42 Tennessee Tech 40', '', 'Oct 08 2011', 'Nashville Tenn', 'Tennessee State 55 Southeast Missouri 3', '', 'Oct 01 2011', 'Clarksville Tenn', 'Austin Peay 37 Tennessee State 34', '', 'Sep 24 2011', 'AirForceAcademy Colo', 'Air Force 63 Tennessee State 24', '', 'Sep 17 2011', 'Murray Ky', 'Murray St ate 58 Tennessee State 27', '', 'Sep 10 2011', 'Memphis TN', 'Jackson State 35 Tennessee State 29', '', 'Sep 03 2011', 'Nashville TN', 'Tennessee State 33 Southern University 7', ''] In [20]: #2010 data #use requests.get() to get web page with 2010 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/108733F9-E3AE-4C3D-95EE-76C0 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2010 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2010) \xa0\xa0', 'Murray State 28, Tennessee State 23\xa0\xa0', '\xa0', ['Nov 20, 2010\xa0\xa0', 'Murray, Ky. 'Nov 13, 2010\xa0\xa0', 'Martin, Tenn. \xa0\xa0', 'UT Martin 37, Tennessee State 0\xa0\xa0', '\xa0', 'Nov 06, 2010\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Eastern Illinois 31, Tennessee State 28\xa0\xa0', '\xa0', 'Oct 23, 2010\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee Tech 21, Tennessee State 10\xa0\xa0', '\xa 0', 'Oct 16, 2010\xa0\xa0', 'Jacksonville, Ala. \xa0\xa0', 'Jacksonville State 24, Tennessee State 0\xa0\xa0', '\xa0', 'Oct. 9, 2010\xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'Southeast Missouri 19, Tennessee State 17\xa0 \xa0', '\xa0', 'Oct. 2, 2010\xa0\xa0', 'Indianapolis, Ind. \xa0\xa0', 'Tennessee State 37, North Carolina A&T 7\xa0\xa0', '\xa0', 'Sep 25, 2010\xa0\xa0', 'Atlanta, GA \xa0\xa0', 'Tennessee State 29, Florida A&M 18 \xa0\xa0', 'Austin Peay 26, Tennessee State 23 \xa0\xa0', '\xa0', 'Sep 18, 2010\xa0\xa0', 'Nashville, TN \xa0\xa0', '\xa0', 'Sep 11, 2010\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Jackson State 33, Tennessee State 2 6\xa0\xa0', '\xa0', 'Sep 04, 2010\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 27, Alabama A&M 14 \xa0\xa0', '\xa0'] In [21]: #get rid of extra text and spaces in list #put text for dates, school names and city into format that's compatible for data frame schedule2010=[r.replace("Oct. 9, 2010","Oct. 09, 2010") for r in schedule2010] schedule2010=[r.replace("Oct. 2, 2010", "Oct. 02, 2010") for r in schedule2010] schedule2010=[r.replace("Cape Girardeau", "CapeGirardeau") for r in schedule2010] schedule2010=[s.replace("UT","Tennessee") for s in schedule2010] schedule2010=[t.replace("North Carolina ","NorthCarolina ") for t in schedule2010] schedule2010 = [v.replace("-","") for v in schedule2010]schedule2010=[w.replace(".", "") for w in schedule2010] schedule2010=[x.replace("\xa0", "") for x in schedule2010] schedule2010=[y.replace(",","") for y in schedule2010] schedule2010=[z.strip() for z in schedule2010] print(schedule2010) ['Nov 20 2010', 'Murray Ky', 'Murray State 28 Tennessee State 23', '', 'Nov 13 2010', 'Martin Tenn', 'Tennessee Martin 37 Tennessee State 0', '', 'Nov 06 2010', 'Nashville TN', 'Eastern Illinois 31 Tennessee State 28', '', 'Oct 23 2010', 'Nashville TN', 'Tennessee Tech 21 Tennessee State 10', '', 'Oct 16 2010', 'Jacksonville Ala', 'Jacksonville State 24 Tennessee State 0', '', 'Oct 09 2010', 'CapeGirardeau Mo', 'Southeast Missouri 19 Tennes see State 17', '', 'Oct 02 2010', 'Indianapolis Ind', 'Tennessee State 37 NorthCarolina A&T 7', '', 'Sep 25 201 0', 'Atlanta GA', 'Tennessee State 29 Florida A&M 18', '', 'Sep 18 2010', 'Nashville TN', 'Austin Peay 26 Tenne ssee State 23', '', 'Sep 11 2010', 'Memphis TN', 'Jackson State 33 Tennessee State 26', '', 'Sep 04 2010', 'Nas hville TN', 'Tennessee State 27 Alabama A&M 14', ''] In [22]: #2009 data #use requests.get() to get web page with 2009 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/DEDBD687-051A-4E37-98F7-ACE4 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2009 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2009) ['Nov 19, 2009\xa0\xa0', 'Charleston, Ill. \xa0\xa0', 'Tennessee State 21, Eastern Illinois  $10 \times 0 \times 10^{-5}$  \xa0\xa0', '\xa0\xa0', '\xa0', '\xa0\xa0', '\xa0'\xa0', '\xa0', '\ a0', 'Nov 14, 2009\xa0\xa0', 'Clarksville, Tenn. \xa0\xa0', 'Austin Peay 24, Tennessee State 21\xa0\xa0', '\xa0\xa0', '\xa0', '\xa0\xa0', '\xa0\xa0', '\xa0\xa0', '\xa0\xa0', '\xa0\xa0', '\xa0', '\xa0\xa0', '\xa0\xa0', '\xa0\xa0', '\xa0', '\xa0\xa0', '\xa0', '\xa0', '\xa0', '\xa0\xa0', '\xa0', '\x 0', 'Nov 07, 2009\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee Martin 28, Tennessee State  $7 \times 0$ , 'xa0\xa0', 'Tennessee Martin 28, Tennessee State  $7 \times 0$ , 'xa0\xa0', 'Tennessee Martin 28, Tennessee State  $7 \times 0$ , 'xa0\xa0', 'Tennessee Martin 28, Tennessee State  $7 \times 0$ , 'xa0\xa0', 'xa0', 'xa0\xa0', 'xa '\xa0', 'Oct 31, 2009\xa0\xa0', 'Cookeville, Tenn. \xa0\xa0', 'Tennessee Tech 20, Tennessee State 13\xa0\xa 0', '\xa0', 'Oct 17, 2009\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Murray State 9, Tennessee State 6\xa0\xa \xa0\xa0', 'Tennessee State 20, Eastern Kentucky 17\xa 0', '\xa0', 'Oct 10, 2009\xa0\xa0', 'Richmond, Ky. 0\xa0', '\xa0', 'Oct 03, 2009\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 23, Southeast Missouri \xa0\xa0', '#25 Florida A&M 31, Tennessee Sta 17\xa0\xa0', '\xa0', 'Sep 26, 2009\xa0\xa0', 'Atlanta, Ga. te 12 $\times$ a0 $\times$ a0', 'Sep 19, 2009 $\times$ a0 $\times$ a0', 'Baton Rouge, LA \xa0 $\times$ a0', 'Southern University 21, Tennes see State 17\xa0\xa0', '\xa0', 'Sep 12, 2009\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 14, Jac kson State Tigers 7\xa0\xa0', '\xa0', 'Sep 05, 2009\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Alabama A&M 24, Tennessee State 7\xa0\xa0', '\xa0'] In [23]: #get rid of extra text and spaces in list #put text for city into format that's compatible for data frame schedule2009=[r.replace("#25","") for r in schedule2009] schedule2009=[s.replace("Tigers","") for s in schedule2009] schedule2009=[t.replace("Baton Rouge", "BatonRouge") for t in schedule2009] schedule2009=[v.replace("-"," ") for v in schedule2009]
schedule2009=[w.replace(".", "") for w in schedule2009]  $schedule2009 = [x.replace("\xa0", "") for x in schedule2009]$ schedule2009=[y.replace(",","") for y in schedule2009] schedule2009=[z.strip() for z in schedule2009] print(schedule2009) ['Nov 19 2009', 'Charleston Ill', 'Tennessee State 21 Eastern Illinois 10', '', 'Nov 14 2009', 'Clarksville Ten n', 'Austin Peay 24 Tennessee State 21', '', 'Nov 07 2009', 'Nashville TN', 'Tennessee Martin 28 Tennessee Stat e 7', '', 'Oct 31 2009', 'Cookeville Tenn', 'Tennessee Tech 20 Tennessee State 13', '', 'Oct 17 2009', 'Nashvil le TN', 'Murray State 9 Tennessee State 6', '', 'Oct 10 2009', 'Richmond Ky', 'Tennessee State 20 Eastern Kentu cky 17', '', 'Oct 03 2009', 'Nashville TN', 'Tennessee State 23 Southeast Missouri 17', '', 'Sep 26 2009', 'Atl anta Ga', 'Florida A&M 31 Tennessee State 12', '', 'Sep 19 2009', 'BatonRouge LA', 'Southern University 21 Tenn essee State 17', '', 'Sep 12 2009', 'Memphis TN', 'Tennessee State 14 Jackson State 7', '', 'Sep 05 2009', 'Na shville TN', 'Alabama A&M 24 Tennessee State 7', ''] In [24]: #2008 data #use requests.get() to get web page with 2008 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/E0564A83-37A0-4B85-8811-B7EF #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2008 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2008) ['Nov 22, 2008\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Murray State 24, Tennessee State 17\xa0\xa0', '\xa0\xa0', '\xa0 \xa0\xa0', 'Murray State 24, Tennessee State 17\xa0\xa0', '\xa0', '\xa0', 'Nov 08, 2008\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 45, Eastern Illinois 24\xa0\xa 0', '\xa0', 'Nov 01, 2008\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 41, Tennessee Tech 14\xa0 \xa0', '\xa0', 'Oct 25, 2008\xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'Southeast Missouri 27, Tennessee State 20\xa0\xa0', '\xa0', 'Oct 18, 2008\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 37, Austin Peay 3 4\xa0\xa0', '\xa0', 'Oct 04, 2008\xa0\xa0', 'Martin, TN \xa0\xa0', 'Tennessee State 30, UT Martin 27\x a0\xa0', '\xa0', 'Sep 27, 2008\xa0\xa0', 'Atlanta, GA \xa0\xa0', 'Florida A&M 28, Tennessee State 21\xa 0\xa0', '\xa0', 'Sep 20, 2008\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 34, Eastern Kentucky 2 0\xa0\xa0', '\xa0', 'Sep 13, 2008\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 41, Jackson State 18\xa0\xa0', '\xa0', 'Sep 06, 2008\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 34, Southern 32\x a0\xa0', '\xa0', 'Aug 30, 2008\xa0\xa0', 'Huntsville, AL \xa0\xa0', 'Tennessee State 34, Alabama A&M 13\xa 0\xa0', '\xa0'] In [25]: #get rid of extra text and spaces in list #put text for school names and city into format that's compatible for data frame schedule2008=[r.replace("Southern", "Southern University") for r in schedule2008] schedule2008=[s.replace("UT", "Tennessee") for s in schedule2008] schedule2008=[t.replace("Cape Girardeau", "CapeGirardeau") for t in schedule2008] schedule2008=[v.replace("-"," ") for v in schedule2008] schedule2008=[w.replace(".", "") for w in schedule2008] schedule2008=[x.replace("\xa0", "") for x in schedule2008] schedule2008=[y.replace(",","") for y in schedule2008] schedule2008=[z.strip() for z in schedule2008] print(schedule2008) ['Nov 22 2008', 'Murray Ky', 'Murray State 24 Tennessee State 17', '', 'Nov 15 2008', 'Jacksonville Ala', 'Jack sonville State 26 Tennessee State 21', '', 'Nov 08 2008', 'Nashville TN', 'Tennessee State 45 Eastern Illinois 24', '', 'Nov 01 2008', 'Nashville TN', 'Tennessee State 41 Tennessee Tech 14', '', 'Oct 25 2008', 'CapeGirarde au Mo', 'Southeast Missouri 27 Tennessee State 20', '', 'Oct 18 2008', 'Nashville TN', 'Tennessee State 37 Aust in Peay 34', '', 'Oct 04 2008', 'Martin TN', 'Tennessee State 30 Tennessee Martin 27', '', 'Sep 27 2008', 'Atla nta GA', 'Florida A&M 28 Tennessee State 21', '', 'Sep 20 2008', 'Nashville TN', 'Tennessee State 34 Eastern Ke ntucky 20', '', 'Sep 13 2008', 'Memphis TN', 'Tennessee State 41 Jackson State 18', '', 'Sep 06 2008', 'Nashvil le TN', 'Tennessee State 34 Southern University 32', '', 'Aug 30 2008', 'Huntsville AL', 'Tennessee State 34 Al abama A&M 13', ''] In [26]: #2007 data #use requests.get() to get web page with 2007 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/4C48DA5B-76BE-4378-8E95-9BB2 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2007 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2007) \xa0\xa0', 'Tennessee-Martin 43, Tennessee State 38\xa0\xa0', '\x ['Nov 17, 2007\xa0\xa0', 'Nashville, TN a0', 'Nov 08, 2007\xa0\xa0', 'Birmingham, AL \xa0\xa0', 'Tennessee State 38, Samford 28\xa0\xa0', '\xa0', \xa0\xa0', 'Tennessee State 42, Murray State 28\xa0\xa0', '\xa0', 'Nov 03, 2007\xa0\xa0', 'Nashville, TN 'Oct 27, 2007 $\xa0\xa0'$ , 'Nashville, TN \xa0\xa0', 'Eastern Illinois 38, Tennessee State 35\xa0\xa0', '\xa 0', 'Oct 20, 2007\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Eastern Kentucky 49, Tennessee State 7\xa0\xa0', '\xa0', 'Oct 11, 2007\xa0\xa0', 'Cookeville, TN \xa0\xa0', 'Tennessee State 45, Tennessee Tech 28\xa0\xa 0', '\xa0', 'Sep 29, 2007\xa0\xa0', 'Atlanta, Ga \xa0\xa0', 'Florida A&M 18, Tennessee State 17\xa0\xa \xa0\xa0', 'Southern 41, Tennessee State 34\xa0\xa0', 0', '\xa0', 'Sep 22, 2007\xa0\xa0', 'Baton Rouge, LA '\xa0', 'Sep 15, 2007\xa0\xa0', 'Clarksville, Tenn. \xa0\xa0', 'Tennessee State 33, Austin Peay 32\xa0\xa0', '\xa0', 'Sep 08, 2007\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 16, Jackson State 13\xa0\xa0', '\xa0', 'Sep 01, 2007\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Alabama A&M 49, Tennessee State 23\xa0\xa0', '\xa0'] In [27]: #get rid of extra text and spaces in list #put text for school names and city into format that's compatible for data frame schedule2007=[r.replace("Southern","Southern University") for r in schedule2007] schedule2007=[s.replace("Samford", "Samford University") for s in schedule2007] schedule2007=[t.replace("Baton Rouge", "BatonRouge") for t in schedule2007] schedule2007=[v.replace("-"," ") for v in schedule2007] schedule2007=[w.replace(".", "") for w in schedule2007] schedule2007=[x.replace("\xa0", "") for x in schedule2007] schedule2007=[y.replace(",","") for y in schedule2007] schedule2007=[z.strip() for z in schedule2007] print(schedule2007) ['Nov 17 2007', 'Nashville TN', 'Tennessee Martin 43 Tennessee State 38', '', 'Nov 08 2007', 'Birmingham AL', 'Tennessee State 38 Samford University 28', '', 'Nov 03 2007', 'Nashville TN', 'Tennessee State 42 Murray State 28', '', 'Oct 27 2007', 'Nashville TN', 'Eastern Illinois 38 Tennessee State 35', '', 'Oct 20 2007', 'Richmond Ky', 'Eastern Kentucky 49 Tennessee State 7', '', 'Oct 11 2007', 'Cookeville TN', 'Tennessee State 45 Tennessee Tech 28', '', 'Sep 29 2007', 'Atlanta Ga', 'Florida A&M 18 Tennessee State 17', '', 'Sep 22 2007', 'BatonRouge LA', 'Southern University 41 Tennessee State 34', '', 'Sep 15 2007', 'Clarksville Tenn', 'Tennessee State 33 Au stin Peay 32', '', 'Sep 08 2007', 'Memphis TN', 'Tennessee State 16 Jackson State 13', '', 'Sep 01 2007', 'Nash ville TN', 'Alabama A&M 49 Tennessee State 23', ''] In [28]: #2006 data #use requests.get() to get web page with 2006 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/902C2D72-E881-4838-87F2-28BZ #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2006 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2006) ['Nov 18, 2006\xa0\xa0', 'Richmond, Ky. \xa0\xa0', 'Eastern Kentucky 20, Tennessee State 3\xa0\xa0', '\xa 0', 'Nov 11, 2006\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 31, Southeast Missouri 0\xa0\xa0', '\xa0', 'Nov 04, 2006\xa0\xa0', 'Charleston, IL \xa0\xa0', 'EASTERN ILLINOIS 29, Tennessee State 3\xa0\xa 0', '\xa0', 'Oct 28, 2006\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 29, Samford 7\xa0\xa0', '\xa0', 'Oct 21, 2006\xa0\xa0', 'Jacksonville, Ala. \xa0\xa0', 'Tennessee State 38, Jacksonville State 31\xa0 \xa0', '\xa0', 'Oct 14, 2006\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 30, Tennessee Tech 20\x a0\xa0', '\xa0', 'Sep 30, 2006\xa0\xa0', 'Atlanta, GA \xa0\xa0', 'Florida A&M 25, Tennessee State 22\xa 0\xa0', '\xa0', 'Sep 23, 2006\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Vanderbilt 38, Tennessee State 9\xa0\x a0', '\xa0', 'Sep 16, 2006\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 31, Jackson State 30\xa0 \xa0', '\xa0', 'Sep 09, 2006\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 25, Murray State Univ 1 5\xa0\xa0', '\xa0', 'Sep 02, 2006\xa0\xa0', 'Nashville,TN \xa0\xa0', 'Alabama A&M 27, Tennessee State 20 \xa0\xa0', '\xa0'] In [29]: #get rid of extra text and spaces in list #put text for school names and city into format that's compatible for data frame schedule2006=[p.replace("Nashville, TN", "Nashville, TN") for p in schedule2006] schedule2006=[q.replace("Murray State Univ", "Murray State") for q in schedule2006] schedule2006=[r.replace("Vanderbilt","Vanderbilt University") for r in schedule2006] schedule2006=[s.replace("Samford","Samford University") for s in schedule2006] schedule2006=[t.replace("EASTERN ILLINOIS", "Eastern Illinois") for t in schedule2006] schedule2006=[v.replace("-"," ") for v in schedule2006] schedule2006=[w.replace(".", "") for w in schedule2006] schedule2006=[x.replace("\xa0", "") for x in schedule2006] schedule2006=[y.replace(",","") for y in schedule2006] schedule2006=[z.strip() for z in schedule2006] print(schedule2006) ['Nov 18 2006', 'Richmond Ky', 'Eastern Kentucky 20 Tennessee State 3', '', 'Nov 11 2006', 'Nashville TN', 'Ten nessee State 31 Southeast Missouri O', '', 'Nov 04 2006', 'Charleston IL', 'Eastern Illinois 29 Tennessee State 3', '', 'Oct 28 2006', 'Nashville TN', 'Tennessee State 29 Samford University 7', '', 'Oct 21 2006', 'Jacksonvi lle Ala', 'Tennessee State 38 Jacksonville State 31', '', 'Oct 14 2006', 'Nashville TN', 'Tennessee State 30 Te nnessee Tech 20', '', 'Sep 30 2006', 'Atlanta GA', 'Florida A&M 25 Tennessee State 22', '', 'Sep 23 2006', 'Nas hville TN', 'Vanderbilt University 38 Tennessee State 9', '', 'Sep 16 2006', 'Memphis TN', 'Tennessee State 31 Jackson State 30', '', 'Sep 09 2006', 'Nashville TN', 'Tennessee State 25 Murray State 15', '', 'Sep 02 2006', 'Nashville TN', 'Alabama A&M 27 Tennessee State 20', ''] In [30]: #2005 data #use requests.get() to get web page with 2005 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/99B728E2-12D4-4887-A990-2498 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2005 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2005) ['Nov 19, 2005\xa0\xa0', 'Nashville, TN \xa0\xa0', 'EKU 49, Tennessee State 0\xa0\xa0', '\xa0', 'Nov 12, 2005\xa0\xa0', 'Cape Girardeau, Mo. \xa0\xa0', 'SEMO 32, Tennessee State 24\xa0\xa0', '\xa0', 'Nov 05, 2005\xa0 \xa0', 'Nashville, TN \xa0\xa0', 'Eastern Illinois Uni 27, Tennessee State 3\xa0\xa0', '\xa0', 'Oct 29, 2 005\xa0\xa0', 'Birmingham, Ala. \xa0\xa0', 'Samford 31, Tennessee State 11\xa0\xa0', '\xa0', 'Oct 22, 2005\x a0\xa0', 'Nashville,TN \xa0\xa0', 'Jacksonville State 33, Tennessee State 3\xa0\xa0', '\xa0', 'Oct 13, 2 005\xa0\xa0', 'Cookeville, Tenn. \xa0\xa0', 'Tennessee State 31, Tennessee Tech 20\xa0\xa0', '\xa0', 'Oct 01, 2005\xa0\xa0', 'Indianapolis, Ind. \xa0\xa0', 'No. Carolina A&T St. 16, Tennessee State 3\xa0\xa0', '\xa0', 'S ep 24, 2005\xa0\xa0', 'Atlanta, GA \xa0\xa0', 'Florida A&M 12, Tennessee State 7\xa0\xa0', '\xa0', 'Sep 17, 2005\xa0\xa0', 'Martin, Tenn \xa0\xa0', 'Tennessee-Martin 42, Tennessee State 20\xa0\xa0', '\xa0', 'Sep 10, 2005\xa0\xa0', 'Memphis, TN \xa0\xa0', 'Tennessee State 20, Jackson State 14\xa0\xa0', '\xa0', \xa0\xa0', 'Alabama A&M Univ 27, Tennessee State 14\xa0\xa0', '\xa 'Sep 03, 2005\xa0\xa0', 'Nashville,TN 0'] In [31]: #get rid of extra text and spaces in list #put text for school names and cities into format that's compatible for data frame schedule2005=[m.replace("Eastern Illinois Uni", "Eastern Illinois") for m in schedule2005] schedule2005=[n.replace("No. Carolina A&T St.","NorthCarolina A&T") for n in schedule2005] schedule2005=[o.replace("Alabama A&M Univ","Alabama A&M") for o in schedule2005] schedule2005=[p.replace("Nashville, TN", "Nashville, TN") for p in schedule2005] schedule2005=[q.replace("Samford", "Samford University") for q in schedule2005] schedule2005=[r.replace("SEMO", "Southeast Missouri") for r in schedule2005] schedule2005=[s.replace("EKU","Eastern Kentucky") for s in schedule2005] schedule2005=[t.replace("Cape Girardeau", "CapeGirardeau") for t in schedule2005] schedule2005=[v.replace("-"," ") for v in schedule2005]
schedule2005=[w.replace(".", "") for w in schedule2005]  $schedule2005 = [x.replace("\xa0", "") for x in schedule2005]$ schedule2005=[y.replace(",","") for y in schedule2005] schedule2005=[z.strip() for z in schedule2005] print(schedule2005) ['Nov 19 2005', 'Nashville TN', 'Eastern Kentucky 49 Tennessee State 0', '', 'Nov 12 2005', 'CapeGirardeau Mo', 'Southeast Missouri 32 Tennessee State 24', '', 'Nov 05 2005', 'Nashville TN', 'Eastern Illinois 27 Tennessee S tate 3', '', 'Oct 29 2005', 'Birmingham Ala', 'Samford University 31 Tennessee State 11', '', 'Oct 22 2005', 'N ashville TN', 'Jacksonville State 33 Tennessee State 3', '', 'Oct 13 2005', 'Cookeville Tenn', 'Tennessee State 31 Tennessee Tech 20', '', 'Oct 01 2005', 'Indianapolis Ind', 'NorthCarolina A&T 16 Tennessee State 3', '', 'Se p 24 2005', 'Atlanta GA', 'Florida A&M 12 Tennessee State 7', '', 'Sep 17 2005', 'Martin Tenn', 'Tennessee Mart in 42 Tennessee State 20', '', 'Sep 10 2005', 'Memphis TN', 'Tennessee State 20 Jackson State 14', '', 'Sep 03 2005', 'Nashville TN', 'Alabama A&M 27 Tennessee State 14', ''] In [32]: #use requests.get() to get web page with 2004 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/57C54C44-DE63-4F94-99EB-2BB3 #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2004 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') #look at list print(schedule2004) ['Nov 20, 2004\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Murray State 30, Tennessee State 13\xa0\xa0', 'Nov 1 3, 2004\xa0\xa0', 'Richmond KY \xa0\xa0', 'Eastern Kentucky 29, Tennessee State 14\xa0\xa0', 'Nov 06, 2 004\xa0\xa0', 'Nashville,TN \xa0\xa0', 'Tennessee State 38, Southeast Missouri 36\xa0\xa0', 'Oct 30, 200 4\xa0\xa0', 'Charleston, Illinois\xa0\xa0', 'Eastern Illinois 34, Tennessee State 24\xa0\xa0', 'Oct 23, 2004\xa \xa0\xa0', 'Samford University 42, Tennessee State 36\xa0\xa0', 'Oct 16, 2004\xa0 0\xa0', 'Nashville, TN \xa0', 'Jacksonville, Ala. \xa0\xa0', 'Jacksonville State 49, Tennessee State 35\xa0\xa0', 'Oct 02, 2004\xa0\x \xa0\xa0', 'South Carolina State 30, Tennessee State 13\xa0\xa0', 'Sep 25, 2004\xa0\x a0', 'RCA Dome \xa0\xa0', 'Florida A&M 21, Tennessee State 15\xa0\xa0', 'Sep 18, 2004\xa0\xa0', 'Mem a0', 'Atlanta, Georgia phis, Tennessee \xa0\xa0', 'Tennessee State 21, Jackson State 20\xa0\xa0', 'Sep 09, 2004\xa0\xa0', 'Martin, Te nnessee \xa0\xa0', 'Tennessee State 27, Tennessee-Martin 13\xa0\xa0', 'Sep. 4, 2003\xa0\xa0', 'Nashville, TN \xa0\xa0', 'Tennessee State 42, Alabama A&M 7\xa0\xa0'] In [33]: #get rid of extra text and spaces in list #put text for school name and city into format that's compatible for data frame schedule2004=[p.replace('Sep. 4, 2003','Sep 04 2004') for p in schedule2004] schedule2004=[r.replace("Nashville, TN", "Nashville, TN") for r in schedule2004] schedule2004=[s.replace("South Carolina State", "SouthCarolina State") for s in schedule2004] schedule2004=[t.replace("RCA Dome","Indianapolis, IN") for t in schedule2004] schedule2004=[v.replace("-"," ") for v in schedule2004] schedule2004=[w.replace(".", "") for w in schedule2004] schedule2004=[x.replace("\xa0", "") for x in schedule2004] schedule2004=[y.replace(",","") for y in schedule2004] schedule2004=[z.strip() for z in schedule2004] #adding blank elements to list to make it similar to other lists being concatenated #can't assign it back to itself or I'll get a Nonetype error schedule2004.insert(3, "") schedule2004.insert(7, "") schedule2004.insert(11, "") schedule2004.insert(15, "") schedule2004.insert(19, "") schedule2004.insert(23, "") schedule2004.insert(27, "") schedule2004.insert(31, "") schedule2004.insert(35, "") schedule2004.insert(39, "") schedule2004.insert(43, "") print(schedule2004) ['Nov 20 2004', 'Nashville TN', 'Murray State 30 Tennessee State 13', '', 'Nov 13 2004', 'Richmond KY', 'Easter n Kentucky 29 Tennessee State 14', '', 'Nov 06 2004', 'Nashville TN', 'Tennessee State 38 Southeast Missouri 3 6', '', 'Oct 30 2004', 'Charleston Illinois', 'Eastern Illinois 34 Tennessee State 24', '', 'Oct 23 2004', 'Nas hville TN', 'Samford University 42 Tennessee State 36', '', 'Oct 16 2004', 'Jacksonville Ala', 'Jacksonville St ate 49 Tennessee State 35', '', 'Oct 02 2004', 'Indianapolis IN', 'SouthCarolina State 30 Tennessee State 13', '', 'Sep 25 2004', 'Atlanta Georgia', 'Florida A&M 21 Tennessee State 15', '', 'Sep 18 2004', 'Memphis Tennesse e', 'Tennessee State 21 Jackson State 20', '', 'Sep 09 2004', 'Martin Tennessee', 'Tennessee State 27 Tennessee Martin 13', '', 'Sep 04 2004', 'Nashville TN', 'Tennessee State 42 Alabama A&M 7', ''] In [34]: #2003 data #use requests.get() to get web page with 2003 data page = requests.get('https://tennstate ftp.sidearmsports.com/custompages/tsutigers/A5FB3AA1-8151-496A-A022-754F #parse data on web page using html module.fromstring mytree = html.fromstring(page.content) #go to web address above , right click on page and select inspect to get HTML code for data from right side of #create XPath query and use xpath function to get list of data from web page schedule2003 = mytree.xpath('body//tr/td/font[@color="#000000"]/text()') print(schedule2003) ['Nov 22, 2003\xa0\xa0', 'Murray, Ky. \xa0\xa0', 'Tennessee State 35, Murray State 10\xa0\xa0', 'Nov 1 5, 2003\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Eastern Kentucky 43, Tennessee State 38\xa0\xa0', 'Nov 08, 2 003\xa0\xa0\, 'Cape Girardeau, Mo. \xa0\xa0\, 'Southeast Missouri 52, Tennessee State 35\xa0\xa0\, 'Nov 01, 200 3\xa0\xa0', 'Nashville, Tenn. \xa0\xa0', 'Tennessee State 24, Eastern Illinois 14\xa0\xa0', 'Oct 25, 2003\xa 0\xa0', 'Birmingham, Ala. \xa0\xa0', 'Tennessee State 29, Samford 24\xa0\xa0', 'Oct 18, 2003\xa0\xa0', 'Nash ville, Tennessee\xa0\xa0', 'Jacksonville State 34, Tennessee State 7\xa0\xa0', 'Oct 11, 2003\xa0\xa0', 'Cookevi lle, Tenn. \xa0\xa0', 'Tennessee State 27, Tennessee Tech 23\xa0\xa0', 'Sep 27, 2003\xa0\xa0', 'Nashville, Te \xa0\xa0', 'Tennessee State 41, Tennessee-Martin 10\xa0\xa0', 'Sep 20, 2003\xa0\xa0', 'Atlanta, Ga. \xa0\xa0', 'Florida A&M Univ. 10, Tennessee State 7\xa0\xa0', 'Sep 13, 2003\xa0\xa0', 'Memphis, Tennessee \xa0\xa0', 'Tennessee State 44, Jackson State Tigers 14\xa0\xa0', 'Sep. 6, 2003\xa0\xa0', 'Huntsville, Alabama \xa0\xa0', 'Alabama A&M 31, Tennessee State 24\xa0\xa0', 'Aug 30, 2003\xa0\xa0', 'Nashville, Tenn. \xa0\xa 0', 'Tennessee State 37, South Carolina State 20\xa0\xa0'] In [35]: #get rid of extra text and spaces in list #put text for school names and city into format that's compatible for data frame schedule2003=[q.replace("Univ.","") for q in schedule2003] schedule2003=[r.replace("South Carolina State", "SouthCarolina State") for r in schedule2003] schedule2003=[s.replace("Samford", "Samford University") for s in schedule2003] schedule2003=[s.replace("Tigers","") for s in schedule2003] schedule2003=[t.replace("Cape Girardeau", "CapeGirardeau") for t in schedule2003] schedule2003=[v.replace("-"," ") for v in schedule2003] schedule2003=[w.replace(".", "") for w in schedule2003] schedule2003=[x.replace("\xa0", "") for x in schedule2003] schedule2003=[y.replace(",","") for y in schedule2003] schedule2003=[z.strip() for z in schedule2003] schedule2003 #adding blank elements to list to make it similar to other lists being concatenated #can't assign it back to itself or I'll get a Nonetype error schedule2003.insert(3, "") schedule2003.insert(7, "") schedule2003.insert(11, "") schedule2003.insert(15, "") schedule2003.insert(19, "") schedule2003.insert(23, "") schedule2003.insert(27, "") schedule2003.insert(31, "") schedule2003.insert(35, "") schedule2003.insert(39, "") schedule2003.insert(43, "") schedule2003.insert(47, "") print(schedule2003) ['Nov 22 2003', 'Murray Ky', 'Tennessee State 35 Murray State 10', '', 'Nov 15 2003', 'Nashville Tenn', 'Easter n Kentucky 43 Tennessee State 38', '', 'Nov 08 2003', 'CapeGirardeau Mo', 'Southeast Missouri 52 Tennessee Stat e 35', '', 'Nov 01 2003', 'Nashville Tenn', 'Tennessee State 24 Eastern Illinois 14', '', 'Oct 25 2003', 'Birmi ngham Ala', 'Tennessee State 29 Samford University 24', '', 'Oct 18 2003', 'Nashville Tennessee', 'Jacksonville State 34 Tennessee State 7', '', 'Oct 11 2003', 'Cookeville Tenn', 'Tennessee State 27 Tennessee Tech 23', '', 'Sep 27 2003', 'Nashville Tenn', 'Tennessee State 41 Tennessee Martin 10', '', 'Sep 20 2003', 'Atlanta Ga', 'Fl orida A&M 10 Tennessee State 7', '', 'Sep 13 2003', 'Memphis Tennessee', 'Tennessee State 44 Jackson State 1 4', '', 'Sep 6 2003', 'Huntsville Alabama', 'Alabama A&M 31 Tennessee State 24', '', 'Aug 30 2003', 'Nashville Tenn', 'Tennessee State 37 SouthCarolina State 20', ''] In [36]: #get number of elements for 2003 list len(schedule2003) Out[36]: In [37]: #get number of elements for 2004 list len(schedule2004) Out[37]: In [38]: #get number of elements for 2005 list len(schedule2005) Out[38]:

DATA SCIENCE PROJECT TO PREDICT FOOTBALL WINS FOR 2003 TO 2019 FOR

State 10  Eastern Kentucky 1 2003-	in order and (1)  (1)  (2)  (2)  (3)  (2)  (4)  (5)  (4)  (5)  (5)  (6)  (7)  (7)  (7)  (7)  (8)  (8)  (8)  (9)  (9)  (9)  (9)  (9	d creates a su  15 2003', 'Na 'Southeast Mi Illinois 14',  B columns)  re'])  extended out of  score) column  spand=True)  between 1st  score'], df['l	shville Te ssouri 52 ''], ['Oct  f the score  winscore ( ns and 2nd pr	de larger nn', 'Eas Tennessee 25 200
The content of the	a in order and 4)]  (a), ''], ['Nov irardeau Mo', 2 24 Eastern ''']]  (b) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	iscore'], df['l	shville Te ssouri 52 ''], ['Oct  f the score  winscore ( ns and 2nd pr	de larger nn', 'Eas Tennessee 25 200
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10   10   10   10   10   10   10   10	a in order and 4)]  (a), ''], ['Nov irardeau Mo', 2 24 Eastern ''']]  (b) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	iscore'], df['l	shville Te ssouri 52 ''], ['Oct  f the score  winscore ( ns and 2nd pr	de larger nn', 'Eas Tennessee 25 200
1981   24   2   2   2   2   2   2   2   2	a in order and 4)]  (a), ''], ['Nov irardeau Mo', 2 24 Eastern ''']]  (b) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	iscore'], df['l	shville Te ssouri 52 ''], ['Oct  f the score  winscore ( ns and 2nd pr	de larger nn', 'Eas Tennessee 25 200
Secretary   Secr	a in order and 4)]  (a), ''], ['Nov irardeau Mo', 2 24 Eastern ''']]  (b) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	iscore'], df['l	shville Te ssouri 52 ''], ['Oct  f the score  winscore ( ns and 2nd pr	de larger nn', 'Eas Tennessee 25 200
post author of commons of control	a in order and 4)]  (a), ''], ['Nov irardeau Mo', 2 24 Eastern ''']]  (b) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	iscore'], df['l	shville Te ssouri 52 ''], ['Oct  f the score  winscore ( ns and 2nd pr	de larger nn', 'Eas Tennessee 25 200
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3 Nov 01 2003 Nathville Tenn Tennessee State 24 Eastern Illinois 14 4 Oct 25 2003 Birmingham Ala Tennessee State 29 Samford University 24  In [38]:  tomin number of rows and columns in file disables  Out[58]:  (191, 3)  In [59]:  embeing date a detertime column difficient "ippd to detertime follows in file embers declared column date of columns dfill of the "ippd to detertime difficient", increasing the Res eVy) applit location column date of columns dfill of the "ippd to detertime difficient", increasing the Res eVy) applit location column date of columns dfill of the "ippd to detertion with (late past of kinema name), loc dfill of the "ippd to detertion with (late past of kinema name), loc dfill of the "ippd to detertion with (late past of kinema name), loc dfill of the "ippd to detertion with (late past of kinema name), loc dfill of the "ippd to detertion", "additional in a single cell dfill obsert "jed to numeric (ippd." increasing the detertion of the second of t	sscore (loser s.str.split(ex with a space state', df['wir see State', df a lower score ss')  ore los1  35 Murray  43 Tennessee	pand=True) be between 1st  ['losscore'], than opponent  los2 losscore	ns and 2nd pr osscore']) df['winsco	
dil'date' -pd.to_datetime (df''date' , formate'\b \d \footnote{Y'} fapili docation column into city and state column d'('city), 'taste'  yed' location to the column devorand scores column into city and state column d'('city), 'taste'  yed' location to wini ('lam part of loser name), Man d'('city), 'taste'  yed' location', 'taste', 't	sscore (loser s.str.split(ex with a space state', df['wir see State', df a lower score ss')  ore los1  35 Murray  43 Tennessee	pand=True) be between 1st  ['losscore'], than opponent  los2 losscore	ns and 2nd pr osscore']) df['winsco	
1 2003- 11-15 Nashville Tenn Kentucky Tennessee State 38  2 2003- CapeGirardeau Mo Tennessee State 35  2 2003- 11-08 Mo Tennessee State 35  CapeGirardeau Mo Tennessee State 35  CapeGirardeau Mo Tennessee State 24 Eastern Illinois 14  Tennessee State 29 Samford University 24  In [60]:  #dropping unneccesary columns df=df.drop(['location', 'scores', 'win1', 'win2', 'los1', 'los2'], axi df.head()  Out[60]:  date city state winscore losscore  0 2003- 11-22 Murray Ky 35 10 Murray State State Mashville Tenn Tennessee State State  Out[60]:  date city state winscore losscore In [60]:  1 2003- 1 2003- 1 1-1-15 Nashville Tenn 43 38 Tennessee State Mashville Tennessee State Mashville Tennessee State State State Awa: State Mashville Tennessee State State State State State Awa: State Mashville Tennessee State St			<b>loser</b> Murray	ts of name
In [60]: #dropping unneccesary columns df=df.drop(['location','scores','win1','win2','los1','los2'], axi df.head()  Out[60]: date city state winscore losscore loser winner locale  0 2003- 11-22 Murray Ky 35 10 Murray State State Away  1 2003- 11-15 Nashville Tenn 43 38 Tennessee Eastern Kentucky  2 2003- CanoGirardony Mo 52 35 Tennessee Southeast Away	<ul><li>24 Eastern</li><li>29 Samford L</li></ul>	State 38 State 35 Illinois 14 University 24	Tennessee State  Eastern Illinois	Eastern Kentucky  H  Southeast Missouri  Tennessee State  H
1 2003- Nashville Tenn 43 38 Tennessee Eastern Kentucky Home	s=1)  e TSU opposition	onent scorediff  10 25	scorediff_abs	winloss Win
2 11-08 CapeGirardeau Mo 52 35 State Missouri Away 3 2003- 11-01 Nashville Tenn 24 14 Eastern Tennessee Home 4 2003- Birmingham Ala 29 24 Samford Tennessee Away In [61]: #create a year variable	e 38 y 35 e 24	43 -5 52 -17 14 10 24 5	5 17 10 5	Loss  Win  Win
df['year']=df.date.dt.year df.head()  Out[61]:  date  city state winscore losscore  loser  winner locale sc  under a year variable df['year']=df.date.dt.year df.head()  date  city state winscore losscore  loser  winner locale sc  a 2003- 11-22  Murray Ky 35 10  Murray State State State Away  2003- 11-15  Nashville Tenn 43 38  Tennessee State Kentucky Home  2003- CapeGirardeau Mo 52 35  Tennessee Southeast Away	TSU opponent score  35 10  38 43  35 52	scorediff scoreding 25 -5 -17	25 W	in 2003 ss 2003
11-08 CapeGrardeau Mo 52 35 State Missouri Away  2003- 11-01 Nashville Tenn 24 14 Eastern Tennessee Illinois State Home  4 2003- 10-25 Birmingham Ala 29 24 Samford Tennessee University State Away  In [62]: #clean up city columns (some names were collasped because they have they have they have they have they have they array(['Murray', 'Nashville', 'CapeGirardeau', 'Birmingham', 'Cook array(['Murray', 'Nashville', 'Murray', 'Mu	24 14 29 24 ad multiple wo	10 5	10 W	in 2003 in 2003
'Atlanta', 'Memphis', 'Huntsville', 'Richmond', 'Charleston' 'Jacksonville', 'Indianapolis', 'Martin', 'BatonRouge', 'Clarksville', 'AirForceAcademy', 'DaytonaBeach', 'StLouis' 'Tallahassee', 'Montgomery', 'Tampa', 'Murfreesboro'], dtyp  In [63]:  #put appropriate spaces and period in city names df['city']=df['city'].replace("CapeGirardeau", "Cape Girardeau").rep df['city']=df['city'].replace("DaytonaBeach", "Daytona Beach").rep df['city']=df['city'].replace("BatonRouge", "Baton Rouge") #check names in city column df['city'].unique()	n', pe=object) replace("AirFo			Academy")
Out[63]:  array(['Murray', 'Nashville', 'Cape Girardeau', 'Birmingham',	a Beach', esboro'], viations			
<pre>in [65]:  /kY', 'Illinois', 'IN', 'Georgia', 'Ind', 'GA', 'IL', 'AL',</pre>	Tenn", "Tennes "Ala", "Alabam "Fla", "FL") .r	na"],"AL").rep	lace("Ky",	"KY")
Out[66]:  array([Murray State', 'Tennessee State', 'Eastern Illinois',	A&T',  Waters',  Waters',  "ray State Urrest ty"  Le University"  Of Tennessee Maiversity"  Olina State Urrest ty'  Colina State University'  College',  Sity',  College',  Sity',  College',  Sity',  College',  Sity',	dartin")  diversity")  e University')  e University')  MAM College')  e University")  Pine Bluff")  hachburg")		
'Eastern Kentucky University', 'Southern University & A&M O 'North Carolina A&T State University', 'Florida A&M Univers 'University of Arkansas Pine Bluff', 'Bethune Cookman University' (Central State University', 'Edward Waters College', 'Alabama State University', 'Virginia University Lynchburg', 'Georgia State University' 'Mississippi Valley State University'], dtype=object)  In [68]:  #checking winner column values df['winner'].unique()  array(['Tennessee State', 'Eastern Kentucky', 'Southeast Missouri' 'Jacksonville State', 'Florida A&M', 'Alabama A&M', 'Murray 'Eastern Illinois', 'Samford University', 'SouthCarolina St 'NorthCarolina A&T', 'Tennessee Martin', 'Vanderbilt University', 'Jackson State', 'Air Force', 'Bethune Cookman', 'UT Martine', 'Jackson State', 'Murray St', 'Pine Bluff', 'Middle Tennessed dtype=object)  In [69]: #correcting school names in winner column	College', Sity', ersity',  // State', cate', csity',  n', see'],			
<pre>df['winner']=df['winner'].replace("Tennessee State","Tennessee St df['winner']=df['winner'].replace('Eastern Kentucky', 'Eastern Ken df['winner']=df['winner'].replace('Southeast Missouri', 'Southeast df['winner']=df['winner'].replace('Jacksonville State', 'Jacksonvi df['winner']=df['winner'].replace("Florida A&amp;M", "Florida A&amp;M Uni df['winner']=df['winner'].replace("Alabama A&amp;M', 'Alabama A&amp;M Univ df['winner']=df['winner'].replace("Murray St", "Murray State"], " df['winner']=df['winner'].replace("Eastern Illinois", "Eastern Ill df['winner']=df['winner'].replace("SouthCarolina State", "South Ca df['winner']=df['winner'].replace("UT Martin", "Tennessee Martin" df['winner']=df['winner'].replace('Southern University', 'Southern df['winner']=df['winner'].replace('Austin Peay', 'Austin Peay Stat df['winner']=df['winner'].replace("Tennessee Tech", "Tennessee Tec df['winner']=df['winner'].replace("Jackson State", "Jackson State df['winner']=df['winner'].replace("Jackson State", "Jackson State df['winner']=df['winner'].replace("Bethune Cookman', 'Bethune Cook df['winner']=df['winner'].replace('Bethune Cookman', 'Bethune Cook df['winner']=df['winner'].replace("Pine Bluff", "University of Ark df['winner']=df['winner'].replace("Middle Tennessee', 'Middle Tenn #check changes to winner column df['winner'].unique()</pre>	tucky University (Missouri State University')  Murray State Innois University (Missouri State Innois University (Missouri A&T State Innois University (Missouri Missouri Misso	Sity') Ate University Versity')  University") University") Ate University Ty of Tennesse A&M College' () () () () () () () () () () () () ()	") e Martin")	
date city state winscore losscore loser winner locale		scorediff scored	ff_abs 'v'	ss year
0       2003- 08-30       Nashville       TN       37       20       Carolina State University       State University       Home University         1       2003- 09-06       Huntsville       AL       31       24       Tennessee University       Alabama A&M University       Away University         2       2003- 09-13       Memphis       TN       44       14       Jackson State University       Tennessee State University       Away University         3       2003- 09-20       Atlanta       GA       10       7       Tennessee State University       Florida A&M University       Away University         4       2003- 09-27       Nashville       TN       41       10       University of Tennessee Martin       Tennessee State University       Home University	score         score           37         20           24         31           44         14	17 -7 30 31	17 W 7 Los	in 2003 in 2003 in 2003 in 2003
In [71]: #check data types of columns df.dtypes  Out[71]: date				
df.shape  Out[72]: (191, 14)  In [73]: #save data frame with scores to folder df.to_csv('scores.csv',encoding='utf-8')  Web Scraping-getting individual years of stats of the score data data data data data data data dat	a frame compages/tsuti	code for data  10]	-8151-496A	-A022-754F t side of
attendance=[a.strip() for a in attendance] attendance=pd.to_numeric(attendance) attendance  out[75]:  array([18124, 18085, 52603, 70185, 8434, 8127, 8023, 10360, 250] 5375, 3875, 2814], dtype=int64)  In [76]:  #get TSU rushing yards TSUrushyards=mytree.xpath('body/center//tr/td/font[@color="#00000] TSUrushyards=[a.replace("\xa0","") for a in TSUrushyards] TSUrushyards=pd.to_numeric(TSUrushyards) TSUrushyards		[124:380:23]		
	0000 <b>"</b> ]/text()	')[128:400:23		
<pre>In [78]: #get TSU kick return yards     TSUkreturnyards=mytree.xpath('body/center//tr/td/font[@color="#00     TSUkreturnyards=[a.replace("\xa0","") for a in TSUkreturnyards]     TSUkreturnyards=pd.to_numeric(TSUkreturnyards)     TSUkreturnyards  Out[78]: array([ 69, 147, 138, 86, 11, 33, 90, 50, 8, 139, 112, 63]     dtype=int64)  In [79]: #get TSU punt return yards     TSUpreturnyards=mytree.xpath('body/center//tr/td/font[@color="#00     TSUpreturnyards=[a.replace("\xa0","") for a in TSUpreturnyards]</pre>	00000"]/text()			
TSUpreturnyards=[a.replace("\xa0","") for a in TSUpreturnyards]  TSUpreturnyards=pd.to_numeric(TSUpreturnyards)  TSUpreturnyards  Out[79]:  array([ 88,  8, 107,  2, 29, 52, -17, 45, 9, 18, 0, 15]  dtype=int64)  In [80]:  #get TSU total tackles  TSUtackles=mytree.xpath('body/center//tr/td/font[@color="#000000"  TSUtackles=[a.replace("\xa0","") for a in TSUtackles]  TSUtackles=pd.to_numeric(TSUtackles)  TSUtackles  TSUtackles	/ /]/text()')[44			
<pre>Out[80]: array([69, 68, 84, 50, 76, 74, 79, 83, 65, 65, 75, 67], dtype=int6 In [81]: #get TSU tackle yards     TSUtackleyd=mytree.xpath('body/center//tr/td/font[@color="#0000000     TSUtackleyd=[a.replace("\xa0","") for a in TSUtackleyd]     TSUtackleyd=pd.to_numeric(TSUtackleyd)     TSUtackleyd Out[81]: array([33, 22, 26, 22, 46, 44, 9, 34, 23, 23, 32, 37], dtype=int6</pre> In [82]: #get TSU sacks	"]/text()')[4			
<pre>In [82]: #get TSU sacks     TSUsacks=mytree.xpath('body/center//tr/td/font[@color="#000000"]/     TSUsacks=[a.replace("\xa0","") for a in TSUsacks]     TSUsacks=pd.to_numeric(TSUsacks)     TSUsacks  Out[82]: array([3., 0., 1., 0., 4., 4., 1., 2., 2., 2., 4., 5.])  In [83]: #get TSU sack yards     TSUsackyd=mytree.xpath('body/center//tr/td/font[@color="#000000"]     TSUsackyd=[a.replace("\xa0","") for a in TSUsackyd]     TSUsackyd=pd.to_numeric(TSUsackyd)     TSUsackyd</pre>				
<pre>Out[83]: array([21, 0, 4, 0, 22, 30, 9, 24, 12, 14, 20, 28], dtype=int6] In [84]: #TSU punts     TSUpunt=mytree.xpath('body/center//tr/td/font[@color="#000000"]/t     TSUpunt=[a.replace("\xa0","") for a in TSUpunt]     TSUpunt=pd.to_numeric(TSUpunt)     TSUpunt Out[84]: array([ 5, 7, 5, 6, 3, 2, 6, 8, 5, 5, 10, 7], dtype=int6</pre>	eext()')[753:9	969:19]		
<pre>In [85]: #create data frame   #change dictionary of lists to data frame list_of_dicts={'date':date,</pre>				
<pre>df2003=pd.DataFrame(list_of_dicts) df2003.head()  Out[85]:</pre>	107 84	TSUtackleyd TSU  33  22  26	<b>Jsacks TSUsa</b> 3.0 0.0	ackyd TSUpi 21 0
	107 84 2 50 29 76	26 22 46	1.0	<ul><li>4</li><li>0</li><li>22</li></ul>
<pre>#creating year column df2003['year']=df2003.date.dt.year df2003.head()</pre>	88       69         8       68         107       84	33 22 26	3.0 0.0 1.0	21 0 4
Out[86]:         date         attendance         TSUrushyards         TSUreceiveyards         TSUkreturnyards         TSUpreturny           0         2003- 08-30         18124         113         365         69           1         2003- 09-06         18085         141         146         147           2         2003- 09-13         52603         209         132         138	2 50 29 76	22	0.0	0 22
0 2003- 08-30 18124 113 365 69  1 2003- 09-06 18085 141 146 147  2 2003- 09-13 52603 209 132 138  3 2003- 09-20 70185 153 138 86  4 2003- 09-27 8434 142 285 11  In [87]: #get info on dataframe df2003.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 12 entries, 0 to 11 Data columns (total 12 columns):</class>				
0       2003- 08-30       18124       113       365       69         1       2003- 09-06       18085       141       146       147         2       2003- 09-13       52603       209       132       138         3       2003- 09-20       70185       153       138       86         4       2003- 09-27       8434       142       285       11         In [87]:         #get info on dataframe df2003.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 12 entries, 0 to 11</class>				
0 2003- 0 88-30 18124 113 365 69  1 2003- 0 99-06 18085 141 146 147  2 2003- 0 99-13 52603 209 132 138  3 2003- 3 09-20 70185 153 138 86  4 2003- 0 99-27 8434 142 285 11  In [87]:  # fget info on dataframe df2003.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 12 entries, 0 to 11 Data columns (total 12 columns): # Column Non-Null Count Dtype</class>	rards TSUtackles 88 69	<del>-</del>	Usacks TSUs	ackyd TSUr.
0 08-30 18124 113 365 69  1 2003-		22 26 22		
0 2003-	88 69 8 68 107 84 2 50 29 76  compages/tsuti	33 22 26 22 46  22 46  code for data	3.0 0.0 1.0 0.0 4.0	21 0 4 0 22
1   2003-   18124   113   365   69     1   2003-   18005   141   146   147     2   2003-   2003   209   132   138     3   2003-   20105   153   138   85     4   2003-   2004-   20105   153   138   85     4   2003-   2004-   2004-   2004-   2005-   2004-     5   2004-   2004-   2004-   2004-   2005-   2004-     10   2004-	88 69 8 68 107 84 2 50 29 76  compages/tsuti	33 22 26 22 46 22 46  code for data 10]	3.0 0.0 1.0 0.0 4.0 -DE63-4F94 from righ	21 0 4 0 22 -99EB-2BB3
0 2003	88 69 8 68 107 84 2 50 29 76  compages/tsuti ext()')[1:110:  02 2004', 'Od  1]/text()')[9:	33 22 26 22 46 22 46  code for data 10]	3.0 0.0 1.0 0.0 4.0 -DE63-4F94 from righ	21 0 4 0 22 -99EB-2BB3
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No.   1930   1934   191   196   447	88 69 8 68 107 84 2 50 29 76 29 76  compages/tsuting to get HTML ext()')[1:110: ext()')[1:110: ext()')[1:110: ext()')[1:110: ext()')[1:110: ext()')[1:110: ext()')[4:ext()')[4:ext()'] ext()')[4:ext()')[4:ext()'] ext()']/text()')[4:ext()'] ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()')[4:ext()'][4:ext()'][4:ext()')[4:ext()'][4:ext()'][4:ext()')[4:ext()'][	33 22 26 26 22 46  .gers/57C54C44  code for data 10]  ct 16 2004', ' 110:10]  ') [126:360:23  ') [130:380:23  ') [130:380:23	3.0 0.0 1.0 0.0 4.0  -DE63-4F94  from righ	21 0 4 0 22 -99EB-2BB3
1	88 69 8 68 107 84 2 50 29 76  compages/tsuting et o get HTML ext()')[1:110:  02 2004', 'Oc  "]/text()')[9:  "21,  "0"]/text()')[9:  "221,  "0"]/text()')[41  "0000"]/text()  "pe=int64)  "00000"]/text()  "pe=int64)  "0000"]/text()  "pe=int64)  "outh TSUtackles  26 74  32 65  "ds TSUtackles  26 74  32 65	33 22 26 26 22 46  29 46  20 41  20 20 41  20 21  21  21  21  21  21  21  21  21	3.0 0.0 1.0 0.0 4.0  Oct 23 200  A.0  Jacks TSUsa 2.0  4.0	21 0 4 0 22 -99EB-2BB3 t side of
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	#sort data df2004=df2 df2004.hea  date atte  2004- 09-04	ge: 1.2 KB 2004.sort_vad() endance TSU 25117	11 non-null s](1), float64(1 values('date',ig  lrushyards TSUrecei	nore_index=T: veyards TSUkre	rue) turnyards TSUp	26	74	35	2.0	12
ı [105	1 09-09 2 2004- 09-18 3 2004- 09-25 4 2004- 10-02	7019 55015 67712 51082		158 149 163 173	34 39 49 57	32 10 32 0	65 63 78 91	60 19 70 17	4.0 2.0 5.0 1.0	30 7 49 4
1 [105 1 [106	#2005 data #use reque page = rec #parse data	_csv('2004. a ests.get() quests.get( ta on web p	folder csv',encoding='  to get web page ('https://tennst	e with data cate_ftp.sidea module.froms		n/custompage:	s/tsutiger:	s/99B728E2	-12D4-488	37-A990-
	#create XI #date data date = myt date=[a.re date=[a.re print(date  ['Sep 03 20	Path query  cree.xpath( eplace("\xa eplace(",", eplace(".", e)  005', 'Sep	above , right cl and use xpath f ('body/center//ta0","") for a in "") for a in da "") for a in da 10 2005', 'Sep 05', 'Nov 12 200	function to gar/td/font[@cardate] tte] 17 2005', 'S	et data olor="#000000	O"]/text()')	[1:110:10]			
i [107	attendance attendance attendance attendance attendance array([2534	e=[a.replace=[a.strip(e=pd.to_nume=42, 48300,	path('body/centere ce("\xa0","") for a in attenderic (attendance 5263, 56297, 4, dtype=int64)	or a in attendendance]	dance]		()')[9:110	:10]		
[108 rt[108	TSUrushyar TSUrushyar TSUrushyar TSUrushyar array([ 72,	rds=[a.repl rds=pd.to_n rds , 286, 77,	<pre>xpath('body/cen lace("\xa0","") numeric(TSUrushy , 26, 117, 233, vards</pre>	for a in TSU: ards) . 157, 87,	rushyards] 50, 141, -18	], dtype=int	64)			
nt[109 n [110	TSUreceive TSUreceive TSUreceive array([154, #get TSU k TSUkreturn TSUkreturn	eyards=[a.reyards=pd.teyards , 103, 170,  kick return nyards=mytr nyards=[a.r	ree.xpath('body/ replace("\xa0","	ceiveyards)  185, 160, 1  (center//tr/to	TSUreceiveyar 96, 286, 150  d/font[@color	rds] ], dtype=int r="#000000"],	64)			
nt[110 n [111	#get TSU preturn TSUpreturn TSUpreturn	nyards  , 11, 110,  ount return nyards=mytr nyards=[a.r nyards=pd.t	n yards ree.xpath('body/replace("\xa0","	center//tr/to	d/font[@colo:	r="#000000"],		130:380:23	]	
nt[111 n [112	#get TSU to TSUtackles TSUtackles TSUtackles TSUtackles	47, -2, 67  total tackl s=mytree.xp s=[a.replac s=pd.to_num s	oath('body/cente ce("\xa0","") fo meric(TSUtackles	er//tr/td/fon- or a in TSUtac	t[@color="#00 ckles]	00000 <b>"</b> ]/text	() <b>'</b> )[414:6	50:22]		
nt[112 n [113	#get TSU to TSUtackley TSUtackley TSUtackley TSUtackley	tackle yard yd=mytree.x yd=[a.repla yd=pd.to_nu yd	ds  spath('body/centace("\xa0","") f  meric(TSUtackle	er//tr/td/for For a in TSUta	nt[@color="#0 ackleyd]	000000 <b>"</b> ]/text	z()')[416:	650:22]		
n [114 nt[114	TSUsacks=n TSUsacks=n TSUsacks=n TSUsacks array([2.,	mytree.xpat [a.replace( od.to_numer	ch('body/center/ ("\xa0","") for ric(TSUsacks)	a in TSUsack	s]	000"]/text()	')[417:650	:22]		
rt[115	TSUsackyd= TSUsackyd= TSUsackyd TSUsackyd array([13,	mytree.xpa =[a.replace =pd.to_nume 16, 6, 50	ath('body/centere'("\xa0","") for eric(TSUsackyd)  0, 37, 11, 0,	a in TSUsac.	kyd] 0], dtype=in	t64)				
nt[116 n [117	TSUpunt=port TSUpunt  array([4, 3]  #create da #change da list_of_di	d.to_numeri 3, 6, 6, 6, ata frame	of lists to data	8], dtype=i						
	'TSUr 'TSUR 'TSUR 'TSUt 'TSUS 'TSUS 'TSUS	receiveyard kreturnyard preturnyard tackles':TS tackleyd':T sacks':TSUs sackyd':TSU punt':TSUpu	TSUtackleyd, sacks, Jsackyd,	ırds,						
t[117	<ul> <li>date atte</li> <li>Sep 03 2005</li> <li>Sep 1 10 2005</li> <li>Sep 2 17</li> </ul>	25342 48300 5263	72 286	154 103	furnyards TSUpr 62 11	returnyards TSU 32 47	47 59	20 29	2.0 3.0	13 16
	2005  Sep 3 24 2005  Oct 4 01 2005	56297 42310	26 117	238	10	67 49	70 75	56 56	7.0	50 37
n [118	df2005['da #creating df2005['ye df2005.hea	ate']=pd.to year colum ear']=df200 ad()	nn as a datetime  D_datetime(df200  nn  D5.date.dt.year  Drushyards TSUrecei	5['date'],fo:			<b>Utackles TSU</b> 47	<b>Jtackleyd TS</b> 20	SUsacks TS	<b>Usackyd</b> 13
	1 2005- 09-10 2 2005- 09-17 3 2005- 09-24 4 2005- 10-01	48300 5263 56297 42310	286 77 26 117	103 170 238 115	11 110 10 99	47 -2 67 49	59 95 70 75	29 17 56 56	3.0 1.0 7.0 6.0	16 6 50 37
i [119	<pre>df2005.inf <class #="" 'par="" 0="" column="" data="" date<="" pre="" rangeindex=""></class></pre>	ndas.core.f : 11 entriens (total 1 n	frame.DataFrame'es, 0 to 10 12 columns): Non-Null Count		[ns]					
	3 TSUred 4 TSUkre 5 TSUpre 6 TSUtad 7 TSUtad 8 TSUsad 9 TSUsad 10 TSUpur 11 year	shyards ceiveyards eturnyards eturnyards ckles ckleyd cks ckyd	11 non-null	int64 int64 int64 int64 int64 float64 int64 int64 int64						
n [120	#sort data df2005=df2 df2005.hea	ge: 1.2 KB 2005.sort_vad()	values('date',ig	nore_index <b>=T</b> :	rue)	oreturnyards TS	<b>Utackles TSU</b> 47	<b>Jtackleyd TS</b> 20	SUsacks TS	<b>Usackyd</b>
	1 2005- 09-10 2 2005- 09-17 3 2005- 09-24 4 2005- 10-01	48300 5263 56297 42310	286 77 26 117	103 170 238 115	11 110 10 99	47 -2 67 49	59 95 70 75	29 17 56 56	3.0 1.0 7.0 6.0	16 6 50 37
121 1 [122	#2006 data #use reque page = rec	csv('2005.	csv',encoding='  to get web page ('https://tennst	e with data cate_ftp.sidea		n/custompage:	s/tsutiger:	s/902C2D72	-E881-483	38-87F2-2
	<pre>#go to wek #create XI #date data date = myt date=[a.re date=[a.re print(date</pre>	address a Path query a cree.xpath( eplace(",", eplace(".",	chage using html cring(page.conte above, right cl and use xpath f ('body/center//t a0","") for a in "") for a in da """) for a in da	ent)  ick on page of function to go or/td/font[@co oten date]  ite]	and select in et data olor="#000000	O"]/text()')	[1:110:10]			
[123	['Sep 02 20 28 2006',  #get atternational attendance at	006', 'Sep 'Nov 04 200  ndance data e=mytree.xp e=[a.replace e=[a.strip(e=pd.to_numee)	<pre>path('body/cente ce("\xa0","") fo () for a in atte meric(attendance</pre>	er//tr/td/fon- er a in attendendance]	2006'] t[@color="#00 dance]	00000 <b>"</b> ]/text			Oct 21 20	006', '0
it[123 i [124	#get TSU i TSUrushyar TSUrushyar TSUrushyar	rushing yar rds=mytree. rds=[a.repl rds=pd.to_n rds	53441, 27460, 5 , dtype=int64)  cds xpath('body/centace("\xa0","") numeric(TSUrushy)	nter//tr/td/fo for a in TSU: vards)	ont[@color="#rushyards]	#000000 <b>"</b> ]/te:		:357:23]		
[125	#get TSU in TSUreceive TSUreceive TSUreceive array([206,	receiving yeyards=mytreyards=[a.reyards=pd.teyards, 230, 167,	<pre>vards ree.xpath('body/ replace("\xa0"," ro_numeric(TSUre , 181, 210, 169,</pre>	center//tr/to	d/font[@colo: TSUreceiveya:	r="#000000"], rds]	/text()')[	118:360:23	]	
[126 ht[126	TSUkreturr TSUkreturr TSUkreturr TSUkreturr array([105,	nyards=[a.r nyards=pd.t nyards , 102, 77, punt return nyards=mytr	ree.xpath('body/replace("\xa0","to_numeric(TSUkr., 70, 98, 45, 45, 45, 45, 45, 45, 45, 45, 45, 45	returnyards)  119, 23, 1  Center//tr/to	TSUkreturnyan  15, 0, 126	rds] ], dtype=int r="#000000"],	64)			
t[127 [128	TSUpreturn TSUpreturn TSUpreturn TSUpreturn array([ 0,  #get TSU t TSUtackles TSUtackles	nyards=mytr nyards=[a.r nyards=pd.t nyards 0, 24, 0 total tackl s=mytree.xp s=[a.replace	ree.xpath('body/replace("\xa0","to_numeric(TSUpr	returnyards)  13, 0, 17,  17/tr/td/form	TSUpreturnyan 7], dtype=in t[@color="#00	t64)				
t[128 [129	TSUtackles array([63,  #get TSU t TSUtackley TSUtackley	76, 63, 59  tackle yard yd=mytree.x yd=[a.repla yd=pd.to_nu	9, 54, 64, 77, 4	er//tr/td/for	nt[@color="#(		z()')[416:	650:22]		
t[129	<pre>#get TSU s TSUsacks= TSUsacks= TSUsacks= </pre>	38, 18, 25 sacks mytree.xpat [a.replace(	5, 14, 15, 26, 2 ch('body/center/ ("\xa0","") for ric(TSUsacks)	//tr/td/font[(	@color="#0000		')[417:650	:22]		
t[130 [131 t[131	#get TSU s TSUsackyd= TSUsackyd= TSUsackyd= TSUsackyd	sack yards =mytree.xpa =[a.replace =pd.to_nume	ath('body/centere("\xa0","") for eric(TSUsackyd)	c//tr/td/font a <b>in</b> TSUsac	[@color="#000 kyd]		')[418:65)	0:22]		
[132 t[132	TSUpunt=my TSUpunt=[a TSUpunt=po TSUpunt array([2, 5]	ytree.xpath a.replace(" d.to_numeri 5, 2, 3, 4,	n('body/center// '\xa0","") for a Lc(TSUpunt) , 4, 6, 3, 6, 4,	in TSUpunt]		00"]/text()')	[698:900:	19]		
[133	#Create da #change di list_of_di 'atte 'TSUr 'TSUr 'TSUr 'TSUr 'TSUr 'TSUr	ictionary clicts={'date endance':at rushyards':receiveyard ereturnyard preturnyard tackles':TStackleyd':Tstackleyd	ttendance, TSUrushyards, ds':TSUreceiveya ds':TSUkreturnya ds':TSUpreturnya SUtackles, TSUtackleyd,	erds, erds,						
rt[133	'TSUr df2006=pd. df2006.hea	ad ()	_	reyards TSUkret	urnyards TSUpr 105	r <b>eturnyards TSU</b> 0	<b>Itackles TSU</b> 63	tackleyd TSI	<b>Jsacks TSU</b> 0.0	<b>Isackyd T</b> 0
	1 09 2006 Sep 2 16 2006 Sep 3 23 2006 Sep	10613 53441 27460	111 146 71	<ul><li>230</li><li>167</li><li>181</li></ul>	102 77 70	0 24	<ul><li>76</li><li>63</li><li>59</li></ul>	38 18 25	1.0	<ul><li>23</li><li>6</li><li>7</li></ul>
134	df2006['da#creating	ate']=pd.to year colum ear']=df200	mn as a datetime o_datetime(df200 mn 06.date.dt.year		98 rmat='%b %d %	16 %Y')	54	14	1.0	4
it[134	<ul> <li>2006- 09-02</li> <li>2006- 09-09</li> <li>2006- 09-16</li> <li>2006-</li> <li>2006-</li> </ul>	19487 10613 53441 27460	Trushyards TSUrecei	206 230 167	105 102 77	oreturnyards TS  0  0  24	63	3 38 18 25	0.0 3.0 1.0	0 23 6 7
ı [135	df2006.inf <class 'par="" rangeindex<="" td=""><td>ndas.core.f : 11 entrie</td><td>frame.DataFrame'</td><td>210</td><td>98</td><td>16</td><td>54</td><td>14</td><td>1.0</td><td>4</td></class>	ndas.core.f : 11 entrie	frame.DataFrame'	210	98	16	54	14	1.0	4
	# Column 0 date 1 attend 2 TSUrus 3 TSUred 4 TSUkre 5 TSUpre 6 TSUtad	dance shyards ceiveyards eturnyards eturnyards ckles ckleyd	12 columns):     Non-Null Count      11 non-null	datetime64 int64 int64 int64 int64 int64 int64 int64 int64 float64	[ns]					
[136	#sort data df2006=df2 df2006.hea	nt tetime64[ns ge: 1.2 KB  2006.sort_v ad()	11 non-null 11 non-null 11 non-null s](1), float64(1) values('date',ig	more_index <b>=T</b> :	rue)	T. C.	Manadalan TCI	Manual To	The dea TC	
	<ul> <li>2006- 09-02</li> <li>2006- 09-09</li> <li>2006- 09-16</li> <li>2006- 09-23</li> </ul>	19487 10613 53441 27460	156 111 146 71	206 230 167 181	105 102 77 70	0 0 24 0	63 76 63 59	3 38 18 25	0.0 3.0 1.0	0 23 6 7
137 1 [138	#2007 data	_csv('2006.	csv',encoding='  to get web page ('https://tennst	e with data	98	16	54	14	1.0	4
	<pre>#parse dat mytree = h  #go to wek #create XI #date data date = myt date=[a.re date=[a.re</pre>	ta on web p ntml.fromst  b address a Path query a cree.xpath( eplace("\xa eplace(",",	page using html cring(page.conte above, right cl and use xpath f ('body/center//ta0","") for a in a in da "") for a in da	module.froms ent)  Lick on page of anction to go  ar/td/font[@co a date] tte]	tring and select in	nspect to ge	t HTML cod			
ı [139	print(date ['Sep 01 20 27 2007',  #get atter attendance attendance attendance	ondance data e=mytree.xp e=[a.replace=[a.strip(	08 2007', 'Sep 07', 'Nov 08 200	15 2007', 'S O7', 'Nov 17 er//tr/td/fone or a in attendendance]	2007'] t[@color="#00				Oct 20 20	07', '0
nt[139 n [140	#get TSU i TSUrushyar TSUrushyar	40, 50879, 93, 7859], rushing yar rds=mytree.rds=[a.replrds=pd.to_n	8359, 15371, 5 , dtype=int64)  rds  xpath('body/centace("\xa0","") numeric(TSUrushy	ter//tr/td/fo	ont[@color="#		xt()')[114	:357:23]		
t[140 [141	#get TSU 1 TSUreceive TSUreceive TSUreceive	receiving y eyards=mytr eyards=[a.r eyards=pd.t eyards	<pre>, 133, 177, 320,  vards ree.xpath('body/ replace("\xa0"," to_numeric(TSUre) , 316, 309, 138,</pre>	center//tr/to ") for a in seceiveyards)	d/font[@colo: TSUreceiveya:	r="#000000"], rds]	/text()')[	118:360:23	]	
[142	TSUkreturr TSUkreturr TSUkreturr TSUkreturr array([154,	nyards=[a.r nyards=pd.t nyards	n yards ree.xpath('body/ replace("\xa0"," to_numeric(TSUkr	") for a in the seturnyards)				126:360:23	]	
-	TSUpreturr TSUpreturr TSUpreturr	nyards=mytr nyards=[a.r		,		], dtype=int				
it[142 i [143 it[143	array([35, #get TSU t	total tackl s=mytree.xp	ree.xpath('body/replace("\xa0","to_numeric(TSUpros, 33, 8, 0, 2)  les path('body/cente	<pre>(center//tr/to/fons)</pre> <pre>(center//tr/to/fons)</pre> <pre>(center//tr/to/fons)</pre>	6, 94, 222  d/font[@color TSUpreturnyar  1], dtype=in  t[@color="#00	r="#000000"], rds] t64)			]	
[143 ht[143 ht[144	#get TSU to TSUtackless TSUtackless TSUtackless TSUtackless array([56, #get TSU to TSUtackless TSUtack	24, 14, 15  total tackl s=mytree.xp s=[a.replac s=pd.to_num s 63, 64, 80  tackle yard yd=mytree.x yd=[a.repla	ree.xpath('body/replace("\xa0"," replace("\xa0"," replace("\xa0"," replace("\xa0","") fo replace("\xa0","") fo recommendate recommendat	center//tr/to/seturnyards)  20, 77, -1, 3  er//tr/td/fone or a in TSUtace 38, 93, 75, 9	<pre>6, 94, 222  d/font[@color TSUpreturnyar  f1], dtype=in  t[@color="#00 ckles]  f2], dtype=in  nt[@color="#00</pre>	r="#000000"], rds] t64) 00000"]/text	()')[414:6	50:22]		
it[143 it[144 it[145	array([35,  #get TSU to TSUtackless TSUtac	24, 14, 15  total tackl s=mytree.xp s=[a.replac s=pd.to_num s 63, 64, 80  tackle yard yd=mytree.x yd=[a.repla yd=pd.to_nu yd 30, 44, 56  sacks mytree.xpat [a.replace(	ree.xpath('body/replace("\xa0"," to_numeric(TSUpros), 33, 8, 0, 2 to 2 to 3, 33, 8, 0, 2 to 3, 33, 8, 2 to 3, 33,	center//tr/to/seturnyards)  20, 77, -1, 3  er//tr/td/fonds  38, 93, 75, 9  er//tr/td/fonds  for a in TSUtage  for a in T	d/font[@color TSUpreturnyar  t[@color="#00 ckles]  2], dtype=in  nt[@color="#0 ackleyd]  4], dtype=in  @color="#0000	r="#000000"], rds]  t64)  00000"]/text  t64)	()')[414:6.	50:22] 650:22]		
1 [143	array([35,  #get TSU to TSUtackles TSUtacks	24, 14, 15  total tackl s=mytree.xp s=[a.replaces=pd.to_num s 63, 64, 80  tackle yard yd=mytree.x yd=[a.replacexyd=pd.to_num yd 30, 44, 56  sacks mytree.xpat [a.replace(pd.to_numer 2, 3, 3, 3, sack yards =mytree.xpat =[a.replace=pd.to_numer 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ree.xpath('body/replace("\xa0"," replace("\xa0"," replace("\xa0"," replace("\xa0","") fo, 33, 8, 0, 2  les path('body/cente re("\xa0","") fo rece("\xa0","") fo rece("\xa0","") fo rech('body/center/rece("\xa0","") for	center//tr/to ") for a in 's eturnyards)  20, 77, -1, 3  er//tr/td/fone for a in TSUtac  (or a in TSUsac	d/font[@color TSUpreturnyar  t[@color="#00 ckles]  12], dtype=in  nt[@color="#0 ackleyd]  4], dtype=in  @color="#0000 s]  nt64)	r="#000000"], rds]  t64)  00000"]/text  t64)  00000"]/text()	()')[414:6. c()')[416:	50:22] 650:22]		
it[143 it[144 it[145 it[145 it[146 it[147 it[147 it[148	array([35,  #get TSU to TSUtackles TSUsacks TSUsack	24, 14, 15  total tackl s=mytree.xp s=[a.replaces=pd.to_num s 63, 64, 80  tackle yard yd=mytree.x yd=[a.replaceyd=pd.to_num yd 30, 44, 56  sacks mytree.xpat [a.replaceyd=pd.to_numer 2, 3, 3, 3, sack yards =mytree.xpat [a.replaceyd=pd.to_numer 16, 26, 36  ytree.xpath a.replace("d.to_numeri 5, 3, 7	ree.xpath('body/replace("\xa0"," replace("\xa0"," replace("\xa0"," replace("\xa0","") rep	center//tr/to for a in seturnyards)  20, 77, -1, 3  21/tr/td/fone for a in TSUtac  38, 93, 75, 9  39, 75, 9  30, 71, 71, 71, 71, 71, 71, 71, 71, 71, 71	d/font[@color TSUpreturnyan  t[@color="#00 ckles]  t[@color="#0 ackleyd]  4], dtype=in  @color="#00000 s]  nt64)  [@color="#00000 kyd]  8], dtype=in	r="#000000"], rds]  t64)  00000"]/text  t64)  0000"]/text()  t64)  0000"]/text()	()')[414:6. c()')[416: ')[417:650	50:22] 650:22]		
it[143 it[143 it[144 it[145 it[145 it[146	array([35,  #get TSU to TSUtackles TSUsacks TSU	24, 14, 15  total tackl  semytree.xp se[a.replacesepd.to_numes 63, 64, 80  tackle yard yd=mytree.x yd=[a.replacedepd.to_numer dayd=pd.to_numer 2, 3, 3, 3, sack yards semytree.xpat [a.replacedepd.to_numer 2, 3, 3, 3, sack yards semytree.xpat [a.replacedepd.to_numer 16, 26, 36  ytree.xpat areplacedepd.to_numer 17  18  18  18  18  18  18  18  18  18	ree.xpath('body/replace("\xa0"," replace("\xa0"," replace("\xa0"," replace("\xa0","") rep	center//tr/to for a in feturnyards)  20, 77, -1, 3  21/tr/td/fond for a in TSUtab  38, 93, 75, 9  21/tr/td/font for a in TSUtab  39, 75, 1  30/tr/td/font for a in TSUsack  31, dtype=i  32/tr/td/font for a in TSUsack  33, 5,  34, 75, 75,  35, 75,  36, 75,  37, 75,  38, 75,  39, 75,  30, 75,  31,  31,  32, 75,  33, 75,  34,  35,  36,  37,  37,  38,  38,  39,  30,  30,  31,  31,  31,  32,  33,  34,  35,  36,  37,  37,  38,  38,  39,  30,  30,  30,  31,  31,  32,  33,  34,  35,  36,  37,  37,  38,  38,  39,  30,  30,  30,  30,  30,  30,  30	d/font[@color TSUpreturnyan  t[@color="#00 ckles]  t[@color="#0 ackleyd]  4], dtype=in  @color="#00000 s]  nt64)  [@color="#00000 kyd]  8], dtype=in	r="#000000"], rds]  t64)  00000"]/text  t64)  0000"]/text()  t64)  0000"]/text()	()')[414:6. c()')[416: ')[417:650	50:22] 650:22]		
t[143  t[144  t[144  t[145  t[146  t[147  t[147  t[148	array([35,  #get TSU to TSUtackles TSUtackle	24, 14, 15  total tack!  s=mytree.xp s=[a.replaces=pd.to_numess 63, 64, 80  tackle yard yd=mytree.x yd=[a.replaceded-to_numers 2, 3, 3, 3, sack yards smytree.xpat [a.replaceded-to_numers 2, 3, 3, 3, sack yards smytree.xpat [a.replaceded-to_numers 2, 3, 3, 3, sack yards smytree.xpat [a.replaced-to_numers 3, 3, 3, sack yards smytree.xpat [a.replaced-to_numers 5, 3, 7, sata frame ictionary contents trucked-to-numers 5, 3, 7, sata frame ictionary contents trucked-to-numers 5, 3, 7, sata frame ictionary contents trucked-to-numers trucked-to-numers contents trucked-to-numers trucked-to-numers contents trucked-to-numers trucked-to-n	cee.xpath('body/ceplace("\xa0"," co_numeric(TSUprice) co_numeric(TSUprice) co_numeric(TSUprice) co_numeric(TSUprice) co_numeric(TSUprice) co_numeric(TSUtackles)	center//tr/to ") for a in 's eturnyards)  20, 77, -1, 3  er//tr/td/fond for a in TSUtab  for a in TSUtab  eyd)  22, 25, 35, 1  cer//tr/td/font a in TSUsack  a in TSUsack  for a in TSUsack  a in TSUsack  for a i	d/font[@colorTSUpreturnyard  t[@color="#00 ckles]  t[@color="#00 ckles]  dtype=in  nt[@color="#000 ackleyd]  4], dtype=in  @color="#0000 kyd]  8], dtype=in  color="#00000 3], dtype=in  154	r="#000000"], rds]  t64)  00000"]/text  t64)  0000"]/text()  0000"]/text()  t64)  returnyards TSL  35	() ') [414:6. () ') [416: () ') [417:650 () (698:900:)	50:22] 650:22] 19] tackleyd TSI	Jsacks TSU	15
it[143 it[144 it[144 it[145 it[146 it[147 it[147 it[148	array([35,  #get TSU to TSUtackles TSUtacks TSUtacks TSUtacks TSUtacks TSUtacks TSUtacks TSUtacks TSUtacks TSUtacks TSUtack T	24, 14, 15  total tack! s=mytree.xp s=[a.replaces=pd.to_num s 63, 64, 80  tackle yard yd=mytree.x yd=[a.replace(yd=yd=yd=yd=yd=yd=yd=yd=yd=yd=yd=yd=yd=y	ree.xpath('body/replace("\xa0","") replace("\xa0","") replace("\xa0","") reconnumeric(TSUprocented ("\xa0","") reconnumeric(TSUtackles ("\	center/tr/td/for a in seturnyards)  20, 77, -1, 3  21/tr/td/fond 22, 25, 35, 1  24/tr/td/font 25/tr/td/font 27/tr/td/font 28 in TSUsack 29/tr/td/font 29/tr/td/font 20, 11, dtype=i  21/tr/td/font 22/tr/td/font 23/tr/td/font	d/font[@color TSUpreturnyar  [1], dtype=in  t[@color="#00 ckles]  [2], dtype=in  nt[@color="#0000 ackleyd]  4], dtype=in  @color="#00000 s]  nt64)  [@color="#000000 3], dtype=in  color="#000000 3], dtype=in  154  84  84  83	r="#000000"], rds]  t64)  000000"]/text  t64)  0000"]/text()  0000"]/text()  t64)  returnyards TSL  35  24  14  15	() ') [414:6.  () ') [416:  () ') [417:650  () ') [418:650  () ') [418:650  () 698:900:3	50:22] 650:22] 19] 19] 17 30 44	Jsacks TSU 2	15 16 26
t[143  t[143  t[144  t[144  t[145  t[147  t[147  t[148  t[149	array([35,  #get TSU to the standard to the st	24, 14, 15  total tackl semytree.xp se [a.replace sepd.to_num 63, 64, 80  tackle yard yd=mytree.x yd=[a.replace yd=yd=pd.to_num yd  30, 44, 56  sacks mytree.xpat [a.replace( pd.to_numer  2, 3, 3, 3,  sack yards enytree.xpat [a.replace( pd.to_numer  16, 26, 36  ytree.xpath a.replace(" d.to_numer  5, 3, 7  sack yards enytree.xpat cackles':TS cacks':TSUs cackleyd':TSUs cackleyd':TS	ree.xpath('body/ replace("\xa0"," replace("\xa0"," replace("\xa0","")	(center//tr/to (center//tr/to (r) for a in (centuryards)  for a in (centuryards)  (content for a in (centuryards)  (centuryard	d/font[@color TSUpreturnyar  t[@color="#00ckles]  1], dtype=in  t[@color="#0000ckleyd]  4], dtype=in  @color="#0000ckyd]  8], dtype=in  color="#0000ckyd]  154  84  83  135  111  rmat='%b %d %	r="#000000"],  t64)  000000"]/text  t64)  0000"]/text()  t64)  000"]/text()  t64)  15  33  34  14  15	() ') [414:6.  () ') [416:4  () ') [417:650  () ') [418:656  () ') [698:900:3  () 64  () 80  () 78	50:22] 650:22] 19] 19] 17 30 44 56 28	<b>Jsacks TSU</b> 2 2 3	15 16 26 36 23
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t[143  t[143  t[144  t[144  t[145  t[145  t[146  t[147  t[147  t[149  t[149	# get TSU to TSU	24, 14, 15  total tackl semytree.xp seja.replace seja.to_num  63, 64, 80  tackle yard yd=mytree.x yd=ga.replace yd=ga.replace yd=ga.replace yd=ga.replace ici.replace(ici.numer  2, 3, 3, 3, sack yards semytree.xpath a.replace(ici.numer  16, 26, 36  ytree.xpath a.replace(ici.numer  16, 26, 36  ytree.xpath a.replace(ici.numer)  16, 26, 36  ytree.xpath a.replace(ici.numer)  16, 26, 36  ytree.xpath a.replace(ici.numer)  23440  50879  8359  15371  56990  date column at a factionary of ici.numeric ic	ree.xpath ('body/ replace("\xa0"," replace("\xa0"," replace("\xa0"," replace("\xa0",") replace("\xa0",	Center/tr/td ("") for a in 's eturnyards)  20, 77, -1, 3  21/tr/td/fond (a in TSUtad (b) (a in TSUsack) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	d/font[@color TSUpreturnyar  1], dtype=in  t[@color="#00000 ckles]  4], dtype=in  ackleyd]  4], dtype=in  color="#00000  3], dtype=in  color="#000000  3], dtype=in  154  84  83  135  111  rmat='%b %d %  sturnyards TSUpr  154  84  83  135  111	returnyards TSU  35  24  14  15  33  34  24  14  15  35  24  14  15	() ') [414:6.  () ') [416:  () ') [417:650  () [698:900:3  () [698	50:22]  50:22]  650:22]  650:22]  19]  17  30  44  56  28	Jsacks TSU 2 2 3 3 3 3 3 3	15 16 26 36 23 Usackyd 15 16 26 36
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t[143  t[143  t[144  t[145  t[145  t[147  t[147  t[149  t[149  t[149	### ### ### ### ### ### ### ### ### ##	24, 14, 15  total tack!  total yard  total tack!  total yard  yard  (yamytree.xpace  total to_numer  total to_numer  total tack!  total tack!  total yard  total tack!  total yard  total tack!  total yard  total tack!  total ta	ree xpath ('body/center')  ree xpath ('body/center')  rea xpath ('body/cent	Center//tr/to if or a in	d/font [@color TSUpreturnyar  fl], dtype=in:  tt[@color="#000 ckles]  2], dtype=in:  ackleyd]  4], dtype=in:  @color="#0000 s]  nt64)  [@color="#00000 s], dtype=in:  color="#000000 3], dtype=in:  turnyards TSUpr  154  84  83  135  111  rmat='%b %d %  turnyards TSUpr  154  84  83  135  111  [ns]  fund select in end select i	re"#000000"], rds]  t64)  00000"]/text  t64)  000"]/text()  t64)  00"]/text()  t64)  00"]/text()  t64)  returnyards TSL  35  24  14  15  33  average to get  oreturnyards TSL  35  24  14  15  33  average to get  oreturnyards TSL  35  24  14  15  33  average to get  oreturnyards TSL  oreturnyards TSL  average to get  oreturnyards TSL  average to		tackleyd TS  222]  222]  222]  222]  232]  244  256  28  28  24 2008	### Disacks TSU	15 16 26 36 23  Usackyd 15 16 26 36 23  Usackyd 15 16 26 36 23
143   143   144   145   147   141   1	# # # # # # # # # # # # # # # # # # #	24, 14, 15  24, 14, 15  24, 14, 15  24, 14, 15  24, 14, 15  25  26  27  28  28  28  28  28  28  28  28  28	## ## ## ## ## ## ## ## ## ## ## ## ##	center//tr/td/ i") for a in ' ceturnyards)  20, 77, -1, 3  cr/tr/td/fon' in a in TSUta' in a in TSUta' in a in TSUta' in a in TSUsack: cryd)  22, 25, 35, 1  cr/tr/td/font[in TSUsack: in	d/font(@color TSUpreturnyar  t[@color="#0"  t[@color="#0"  t[@color="#0"  cleolor="#0"  done="#00000  allor="#000000  allor="#000000000000000000000000000000000000	r="#000000"], rds]  t64)  t64) t64)	() ') [414:6.  () ') [417:650  () ') [418:650		### Description of the control of th	15 16 26 36 23  Usackyd 15 16 26 36 23  Usackyd 15 16 26 36 23
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[230	df2012[' #creatin df2012[' df2012.h	date']=pd.tc g year colum year']=df201 ead()	nn as a datetin c_datetime(df20 nn .2.date.dt.year 138 235 112 200	012['date'],fo			49 66 55 84	28 21 13 52	SUsacks TS  1  3  1	5 20 9
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:[245	list_of_'at 'TS	dicts={'date tendance':at Urushyards': Ureceiveyard Ukreturnyard Upreturnyard Utackles':TS Utackleyd':T Usacks':TSUs Usackyd':TSU Upunt':TSUpu d.DataFrame(ead()	e':date, ttendance, TSUrushyards, ds':TSUreceivey ds':TSUkreturny ds':TSUpreturny SUtackles, CSUtackleyd, sacks, Usackyd,	yards, yards, yards,	urnyards TSUpre 84 111	<u> </u>	<b>Dtackles TSU</b> 62 41	<u>-</u>	1.0 3.0 2.0	
[246	df2013['	<pre>date']=pd.tc g year colum year']=df201</pre>	95 311 an as a datetin o_datetime(df20 an a3.date.dt.year	)13['date'],fo	63 46 rmat='%b %d %'	23 75 Y')	76 70	51	3.0	28
[246	<ul> <li>2013-09-01</li> <li>2013-09-07</li> <li>2013-09-14</li> <li>3 2013-09-21</li> <li>4 2013-09-28</li> </ul>	16108 14237 42400 10044 22000	116 268 174 95 311	132 131 111 343 228	111 64 63 46	eturnyards TS 51 17 11 23 75	62 41 69 76	7 35 26 51 44	1.0 3.0 2.0 3.0 3.0	18 13 28 17
[247	df2013.i. <class #="" 'p="" 0="" 1="" 10="" 11="" 2="" 3="" 4="" 5="" 6="" 7="" 8="" 9="" atte="" colu="" d="" data="" date="" dtypes:="" memory="" rangeinde="" td="" tsuk="" tsup="" tsur="" tsus="" tsut="" us<="" year=""><td>andas.core.f x: 14 entrie mns (total 1 mn ndance ushyards eceiveyards returnyards returnyards ackles ackleyd acks ackyd unt atetime64[ns age: 1.4 KB</td><td>frame.DataFrames, 0 to 13</td><td>nt Dtype datetime64 int64 int64 int64 int64 int64 int64 int64 int64 int64 int64</td><td>[ns]</td><td></td><td></td><td></td><td></td><td></td></class>	andas.core.f x: 14 entrie mns (total 1 mn ndance ushyards eceiveyards returnyards returnyards ackles ackleyd acks ackyd unt atetime64[ns age: 1.4 KB	frame.DataFrames, 0 to 13	nt Dtype datetime64 int64	[ns]					
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[262	#creatin df2014[' #creatin df2014[' df2014.h	<pre>date']=pd.tc g year colum year']=df201 ead()</pre>	nn as a datetin o_datetime(df20 nn .4.date.dt.year 439 92	014['date'],fo			64  SUtackles TSU  53  89  54	51  Jtackleyd TS  38  28  40	7.0  5Usacks TS  2.0  3.0  7.0	44 5 <b>Usackyd</b> 13 13
[263	df2014.i. <class #="" #sort="" 'p="" 0="" 1="" 10="" 11="" 2="" 3="" 4="" 5="" 6="" 7="" 8="" 9="" atte="" colu="" d="" da="" data="" date="" df2014="d&lt;/td" dtypes:="" memory="" rangeinde="" tsuk="" tsup="" tsur="" tsus="" tsut="" us="" year=""><td>andas.core.f x: 12 entrie mns (total 1 mn ndance ushyards eceiveyards returnyards returnyards ackles ackleyd acks ackyd unt atetime64[ns age: 1.2 KB</td><td>frame.DataFrames, 0 to 11</td><td>nt Dtype datetime64 int64 int64</td><td></td><td>15</td><td>48</td><td>51</td><td>7.0</td><td>28</td></class>	andas.core.f x: 12 entrie mns (total 1 mn ndance ushyards eceiveyards returnyards returnyards ackles ackleyd acks ackyd unt atetime64[ns age: 1.2 KB	frame.DataFrames, 0 to 11	nt Dtype datetime64 int64		15	48	51	7.0	28
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[265	<pre>#save da df2014.t  #2015 da #use req page = r  #parse d mytree =  #go to w #create #date da date = m date=[a. date=[a. print(da</pre> ['Sep 06	ta  uests.get() equests.get() ata on web p html.fromst  eb address a XPath query ta ytree.xpath() replace("\xa replace(",", replace(".", te)	csv', encoding=  to get web page ('https://tenns page using htm. cring(page.cont above, right of and use xpath ('body/center/, 10","") for a in of "") for a in of "") for a in of	ge with data state_ftp.side  l module.froms  cent)  click on page function to g  (tr/td/font[@c in date] date]  date]	tring  and select in et data  olor="#000000	spect to ge "]/text()')	t HTML cod	e for data	from ri	ght sid
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[272 [272 [273 [274	TSUtackl TSUtackl TSUtackl TSUtackl array([47  #get TSU TSUtackl	es=[a.replaces=pd.to_numes] , 83, 83, 68  tackle yardeyd=mytree.xeyd=[a.replaceyd=pd.to_numeyd] , 38, 4, 44  sacks =mytree.xpates=[a.replace(e=pd.to_numer]]	path('body/cent ce("\xa0","") ineric(TSUtackle	for a in TSUta es)  62, 92, 53],  http://tr/td/fofor a in TSUtaleyd)  7, 69, 28],	<pre>ckles] dtype=int64)  nt[@color="#0 ackleyd] dtype=int64) @color="#00000</pre>	00000 <b>"</b> ]/tex	t()')[383:	600:23]		
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[277	TSUpunt  array([5,  #create #change list_of_ 'at 'TS	5, 7, 8, 6,  data frame dictionary of dicts={'date tendance':at Urushyards': Ureceiveyard Ukreturnyard Upreturnyard Utackles':TS Utackleyd':TSU Usacks':TSUs Usackyd':TSU Upunt':TSUpu d.DataFrame( ead()	of lists to date:  c':date,  ctendance,  TSUrushyards,  ds':TSUreceives  ds':TSUkreturns  ds':TSUpreturns  SUtackles,  CSUtackleyd,  sacks,  Usackyd,	yards, yards, yards,		turnyards TSI	Jtackles TSU	tackleyd TSI	Usacks TSU	<b>Jsackyd</b> 12
[278	0 06 2015 Sep 1 12 2015 Sep 2 19 2015 Sep 3 26 2015 Oct 4 10 2015 #creatin df2015[' #creatin df2015[' df2015.h	48385  23413  18020  7123  g date columdate']=pd.tcg year columyear']=df201ead()	110  24  169  85  an as a datetime odatetime (df2) an  5.date.dt.year	304  184  238  205  me column  015['date'], fo	152 102 46 40 rmat='%b %d %	48 0 15 4	83 83 68 71	38 4 44 7	5.0 0.0 4.0 0.0	31 0 22 0
[278	<ul> <li>2015-09-06</li> <li>2015-09-12</li> <li>2015-09-19</li> <li>2015-09-26</li> <li>2015-10-10</li> </ul>	22455 48385 23413 18020 7123	142 110 24 169 85	188 304 184 238 205	152 102 46 40	eturnyards TS  38  48  0  15	83 83 68 71	21 38 4 44 7	1.0 1.0 5.0 0.0 4.0 0.0	12 31 0 22
[279	df2015.i. <class #="" 'p="" 0="" 1="" 10="" 11="" 2="" 3="" 4="" 5="" 6="" 7="" 8="" 9="" atte="" colu="" d="" data="" date="" dtypes:="" memory="" rangeinde="" td="" tsuk="" tsup="" tsur="" tsus="" tsut="" us<="" year=""><td>andas.core.fx: 10 entriems (total 1 mm mdance ushyards eceiveyards returnyards ackles ackleyd acks ackyd unt atetime64[ns age: 1.1 KB</td><td>frame.DataFrames, 0 to 9</td><td>nt Dtype datetime64 int64 int64 int64 int64 int64 int64 int64 int64 float64 int64 int64 int64</td><td></td><td></td><td></td><td></td><td></td><td></td></class>	andas.core.fx: 10 entriems (total 1 mm mdance ushyards eceiveyards returnyards ackles ackleyd acks ackyd unt atetime64[ns age: 1.1 KB	frame.DataFrames, 0 to 9	nt Dtype datetime64 int64 int64 int64 int64 int64 int64 int64 int64 float64 int64 int64 int64						
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[281 [282 [283 [284 [285 [285	#save da df2015.t.  #2016 da #use req page = r  #parse d mytree =  #go to w #create da date = m date=[a.date=[a.date=[a.date=[a.date=[a.date=[a.date]a.date]a.date]a.date]a.date]a.date]a.datendan attendan	ta o_csv('2015.  ta uests.get() equests.get() equests.get() ata on web p html.fromst  eb address a XPath query ta ytree.xpath( replace("\xa replace("\", replace("\", replace(''\", receiving y replace(''\", receiving y reyards=mytre ards=pd.to_n ards 2, 121, 210, receiving y reyards=pd.to_n ards 9, 273, 184, receiving y reyards=pd.to_n receiving y reyards=mytre receiving y reyards=mytre receiving y reyards=mytre receiving y	csv', encodings  to get web page ('https://tenns page using htm. page using ht	e"utf-8")  ge with data state_ftp.side  l module.froms  cent)  click on page function to g  (tr/td/font[@c in date] date] date] date] lov 19 2016', 'C 016', 'Nov 19  cer//tr/td/fon for a in atten cendance] ce)  4319, 21053,  center//tr/td/f for a in TSU nyards)  1, 285, 329, 2	armsports.com  tring  and select in et data  olor="#000000  for a in date  ct 01 2016', 2016']  t[@color="#000 dance]  31084, 8605  ont[@color="#rushyards]  d/font[@color="#rushyards]  d/font[@color="#rushyards]	/custompage  spect to ge "]/text()')  'Oct 08 201  'Oct 08 201  00000"]/text  , 6041,  0000000"]/te  , dtype=int  ="#0000000"] ds]  , dtype=int	s/tsutiger  t HTML cod  [1:110:10]  6', 'Oct 1  ()')[9:110  xt()')[114  64)  /text()')[	s/F8A9B17C  e for data  5 2016', '  :10]  :346:23]	e-4555-451	FB-AAF3
[286	TSUkretu TSUkretu TSUkretu array([ 2  #get TSU TSUpretu TSUpretu TSUpretu TSUpretu TSUpretu TSUpretu TSUpretu TSUpretu TSUpretu	rnyards=[a.r rnyards=pd.t rnyards  9, 96, 122,  punt return rnyards=mytr rnyards=pd.t rnyards  , 11, 23, 0  total tackles=mytree.xpes=[a.replace	replace("\xa0", co_numeric(TSU)  80, 113, 78  1 yards ree.xpath('body replace("\xa0", co_numeric(TSU)  1), 0, 0, 0, 0,	for a in xreturnyards)  3, 59, 142,  y/center//tr/t "") for a in preturnyards)  10, 14, 17, 1  ter//tr/td/fon a in TSUta	TSUkreturnyard  86, 93, 93]  d/font[@color= TSUpreturnyard  7], dtype=int  t[@color="#000ckles]	ds] , dtype=int ="#000000"] ds] 64)	64) /text()')[	130:363:23		

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TSUpunt= TSUpunt  TSUpunt  array([ 5]  #create #change list_of_ 'at 'TS	emytree.xpath [a.replace(" epd.to_numeri c, 6, 2, 6  data frame dictionary o dicts={'date tendance':at SUrushyards':	<pre>\xa0","") for c(TSUpunt)  6, 6, 5, 4,  6f lists to data ':date, tendance, TSUrushyards, s':TSUreceives</pre>	yards,			)[711:919:	19]		
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# # # # # # # # # # # # # # # # # # #	d, 51, 3, 34  Itotal tack! Les=mytree.xp Les=mytree.xp Les=pd.to_num Les  d, 63, 69, 77  Itackle yard Leyd=mytree.x Leyd=la.replac Leyd=pd.to_num Leyd  3, 30, 5, 19  Isacks Lesmytree.xpat Legalace(xpd=mytree.xpat Legalace(xpd=mytree.xpat Legalace(xpd=doolonumer Leyd=doolonumer Leyd=doolonumer Leyd=doolonumer Leyd=doolonumer Leyd=doolonumer Leyd=doolonumer Leyd=doolonumer Legalace(xpd=doolonumer Legalace(xpd=doolonumer) Legalace(xpd=doolonumer	es ath ('body/cente' ('xa0",") eric (TSUtackle' ('xa0",") gath ('body/cente' ('xa0",") meric (TSUtackle' ('xa0",") for (TSUsacks)  1., 4., 2.,  th ('body/center' ('xa0",") for (TSUsackyd)  2., 7, 21, 14,  ('body/center' ('xa0",") for (TSUsackyd)  4, 3, 5, 7],  for lists to dai ':date, tendance, TSUrece'vey so':TSUkrecurny so':TSUkrecurny so':TSUkrecurny so':TSUkrecurny Utackles, SUtackleyd, acks, suth list_of_dicts)  ushyards TSUrece  201  195  104  164  63  frame  frame  frame.DataFrame (frame (frame) (f	ter//tr/td/fon for a in TSUta es)  for a in TSUta es)  for a in TSUta et a in TSUsack  2., 2.])  er//tr/td/font[ fr a in TSUsack  2., 2.])  er//tr/td/font or a in TSUsack  2., 2.])  er//tr/td/font for a in TSUsack  2., 2.])  er//tr/td/font for a in TSUsack  2., 2.])  er//tr/td/font for a in TSUsack  319, 18], dtyr  //tr/td/font for a in TSUpunt  dtype=int64)  ta frame  taframe  seriveyards TSUkret  324  349  269  325  307  eiveyards TSUkret  324  349  269  325  307	runyards TSUpre  49  150  105  134  140  rmat='%b %d %  turnyards TSUpre  49  150  105  134  140  rmat='%b %d %	00000"]/text  000"]/text()  000"]/text()  000"]/text()  0"]/text()  4	() ') [348:5:  t () ') [350::  ') [351:540  ) ') [352:54   () ') [352:54   () ') [369:77  74   **Utackles TSU  **Sutackles TS	######################################	5.0  2.0  0.0  1.0  5Usacks TS  5.0  2.0  0.0  1.0  1.0  3. A1B8-46F	SUsack SUsack
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#get TSU TSUtack1 TSUsacks TSUsacks TSUsacks TSUsacks TSUsacky TSU	d, 51, 3, 34  d, 61, 61, 3, 34  d, 62, 67, 77  des=mytree.xp des=la.replace es=pd.to_num dey d, 63, 69, 77  d, 73, 19  d, 73, 19  d, 73, 19  d, 74, 4, 4, 5, 7  d, 74, 4, 4, 5	ath ('body/center', 'afort, 'sold 's	ter//tr/td/fon for a in TSUta es)  60, 64], dtyp  60, 64], dtyp  mter/tr/td/fo for a in TSUt leyd)  27, 38], dtyp  r/tr/td/font[e r a in TSUsack  2., 2.])  er/tr/td/font or a in TSUsac  19, 18], dtyp  //tr/td/font(e a in TSUpute)  dtype=int64)  ta frame  dtype=int64)  ta frame  eiveyards TSUkret  324  349  269  325  307  eiveyards TSUkret  324  349  269  325  307	re=int64)  t[@color="#00 ckles]  re=int64)  nt[@color="#0 ckleyd]  re=int64)	00000"]/text  00000"]/text()  000"]/text()  000"]/text()  0"]/text()'  eturnyards TS  64  51  3  34  -1  /custompage  spect to ge  "]/text()')  'Sep 28 201  3 34  -1  /custompage  spect to ge  "]/text()')  'Sep 28 201  3 34  -1  /custompage  spect to ge  "]/text()')  'Sep 28 201  3 34  -1  198],  "#000000"]/text  198],	() ') [348:5]  t () ') [350:  t () ') [351:540  () ') [352:54]  () ') [352:54]  () ') [399:769:  () ') [370:  () ') [	tackleyd TS  43  30  2tackleyd TS  43  30  5  19  19  19  19  19  19  19  19  19	5.0  2.0  0.0  1.0  5Usacks TS  5.0  2.0  0.0  1.0  5Usacks TS  5.0  2.0  0.0  1.0  1.0	SUsack SUsack
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# # # # # # # # # # # # # # # # # # #	designation of the control of the co	## ath ('body/center' ('xa0","") ## are ('xa0","	ter/tr/td/fon for a in TSUta es)  60, 64], dtyp  60, 64], dtyp  for in TSUta es)  27, 38], dtyp  r/tr/td/font[end ra in TSUscal  2, 2.])  er/tr/td/font[end ra in TSUscal  19, 18], dtyp  //tr/td/font[end ra in TSUscal  resiveyards TSUkret  324  349  269  325  307  ely  ely  and resiveyards TSUkret  324  349  269  325  307  ely  ely  resiveyards TSUkret  324  349  269  325  307  ely  resiveyards TSUkret  resiveyards TSUkr		######################################	() ') [348:5.  () ') [350:  t () ') [350:  ') [351:540  ) ') [352:54  () () [599:769:  54  63  69  77  74  **  **  **  **  **  **  **  **	546:23]  123]  123]  13]  14ackleyd TS  43  30  5  19  19  19  19  19  19  19  19  19	5.0	SUsack
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## ## ## ## ## ## ## ## ## ## ## ## ##	descriptions of the column of	esh 'body'center'  at he'body'center'  at he'sody'center'  at yada', 77, 65,  shith'body'center'  at yada', 19, 28, 28,  h'body'center'  at yada', 19, 28, 28,  h'body'center'  at yada', 19, 21, 14,  at yada', 21,  at yada', 21,  at yada', 21,  at yada', 21,  at yada'  at yada', 21,  at yada'  at yada', 21,  at yada'  at yada', 24,	ter/tr/td/fon  for a in TSUta  selection and TSUta  for a in TSUta  for a in TSUta  for a in TSUta  for a in TSUs  for a in TS	rue)  rueint64)  t(@color="#00  reint64)  rein	######################################	() ') [348:5]  () ') [350:  () ') [351:540  () ') [352:54]  () ') [352:54]  () ') [399:769:  () ') [399:769:  () ') [399:769:  () ') [348:5  () ') [348:5  () ') [448:  () ') [447:7  () ') [447:7  () ') [447:7  () ') [447:7  () ') [447:7  () ') [447:7  () ') [447:7  () ') [449:		5.0	SUsack
# # # # # # # # # # # # # # # # # # #	## A Company of the c	es  ath 'bady'cent  ath 'bady'cent  ath 'bady'cent  for 74, 77, 65,  s  path ('body'cent  cent's ath  path ('body'cent  cent's ath  path ('body'cent  cent's ath  path ('body'cent  cent's ath  cent's	ter/tr/td/foness)  60, 64], dtyp  60, 64], dtyp  60, 64], dtyp  60, 64], dtyp  61, dtyr/td/foness  27, 38], dtyp  62, 21, 13  62, 21, 13  62, 22, 21, 13  62, 13, 14, 14, 15, 16  63, 14, 16, 16  64, 164, 164, 164  64, 164, 164  64, 164, 164  64, 164, 164  64, 164, 164  64, 164, 164  64, 164	### ### ### ### ### ### ### ### ### ##	###  ###  ###  ###  ###  ###  ###  ###  ###  ###  ###  ###  ##	() ') [348:5:  () ') [348:5:  () ') [350::  () ') [351:540  () ') [352:54]  () () () [399:769::  () () () () () () () () () () () () () (	tackleyd TS  43  30  19  19  19  19  2tackleyd TS  43  30  5  19  19  2tackleyd TS  43  30  30  31  2tackleyd TS  43  30  30  31  31  32  31  32  32  32  32  32  32	5.0  2.0  0.0  1.0  5.0  5.0  7.0  1.0  5.0  5.0  7.0  7.0  7.0  7.0  7.0  7	Jsack  Jsack  O19'
# # # # # # # # # # # # # # # # # # #	## A CONTRACT OF THE PROPERTY	es at "body/center" ("Yad","") artic (TSUackle ("Yad","") for a fact of the control of the contr	ter/tr/td/font es)  60, 64), dtyp  60, 64), dtyp  mter/tr/td/font es)  27, 38], dtyp  re/tarint/Susack  12, 2, 1)  27, 38], dtyp  re/tarint/Susack  2, 2, 1)  21, 18, dtyp  re/tr/td/font es ain TSUsack  19, 18, dtyp  26, 19, 18, dtyp  //tr/td/font es ain TSUpunt]  dtype=int64)  ta frame  tyrads, yards, yards, yards, yards, yards, yards, yards, yards, yards ya	### ### ### ### ### ### ### ### ### ##	### O0000"] / text    Ooon	() ') [348:5:  t() ') [348:5:  t() ') [350::  ') [351:540  ) ') [352:54:  ) [599:769::  () ') [599:769::  () ') [447:7:  () ')	tackleyd TS  tackleyd TS  43  30  5  19  19  19  19  19  19  19  19  19	5.0 2.0 0.0 0.0 1.0 5.0 5.0 0.0 0.0 1.0 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Jsack  Oly  Oly  A  Oly  Oly
# # # # # # # # # # # # # # # # # # #	tendance TSU  te	## A CANDERS OF THE PROPERTY O	ter/tr/td/foncers)  for ain TSUback  for ain attention for ain TSUback  for ain TSUb	### 150  ###	######################################	() ') [348:5:  () ') [350:.  t () ') [350:.  t () ') [352:54]  () (599:769:.  () (599:769:.  () (599:769:.  () (599:769:.  () (599:769:.  () (599:769:.  () (599:769:.  () (1) [352:54]  () (1) [	### ### ### ### #### #### ############	5.0 2.0 0.0 1.0 5Usacks TS 5.0 2.0 0.0 1.0 1.0 5Usacks TS 5.0 2.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Jack  Oly  Oly  Oly  Oly  Oly  Oly  Oly  Ol
# # # # # # # # # # # # # # # # # # #	## A 1	ses (body/enter (b	ter//tr/td/fonces  60, 64], dtyr  61, 64, dtyr  62, 38], dtyr  62, 41, dtyr  62, 42, 1)  62, 63, 64  63, 64, dtyr  64, 65, 66, 1  66, 65, 66, 1  67, 67, 67, 67, 67, 67, 67, 67, 67, 67,	### ### ### ### ### ### ### ### ### ##	00000"]/text  00000"]/text()  000"]/text()  000"]/text()  001"]/text()  101"]/text()	() ') (348:5:  () ') (350::  () ') (351:540  () ') (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (352:54)  () (464:5 TSU  () (464:5 TSU  () (164:7:7)  () (1	### ### ### ### ### ### #### #### #### ####	5.00 2.00 0.00 1.00 1.00 1.00 1.00 1.00 1	Jsacks  Jacks  Jacks  Jacks  Jacks  Jacks  Jacks
### ### ### ### ### ### ### ### ### ##	## A PART AND	## 10	ter/tr/td/fon for a in TSU c a	### ### ### ### ### ### ### ### ### ##	######################################	() ') [348:5:  () ') [350::  () ') [352:54]  (	### ### ### ### #### #### ############	5.0  2.0  0.0  1.0  5Usacks TS  5.0  2.0  0.0  1.0  5Usacks TS  3.0  2.0  0.0  1.0  1.0  5Usacks TS  3.0  4.0  1.0  1.0  1.0  1.0  1.0  1.0  1	Jsacks  Jacks  Jacks  Jacks  Jacks  Jacks  Jacks
### ### ### ### ### ### ### ### ### ##	## A PART OF TOOL AND	## ## ## ## ## ## ## ## ## ## ## ## ##	ter/tr/td/fon for a in TSU a for, a in TSU a f	### 150  ###	######################################	######################################	######################################	5.0 2.0 0.0 0.0 1.0 5.4 5.0 2.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Jack Susack
### ### ### ### ### ### ### ### ### ##	tendance TSU  tackle yard  tack	se of ('bady/center' serior ('bady/center' serior ('stack)  at ('s	ter / tr /	### 150  ###	##OUODOO"]  ##OUODOO"]  ##UTINATE  ##OUODOO"]  ##OUODO	() '  (348.5) () '  (351.540 () '  (352.54) () '  (352.54) () '  (352.54) () '  (352.54) () '  (352.54) () (352.54	######################################	5.0  2.0  0.0  0.0  1.0  5.0  2.0  0.0  0.0  1.0  1.0  1.0  1.0  1	Jack Susack
### ### ### ### ### ### ### ### ### ##	tendance TSU  te	### ### ### ### ### ### ### ### ### ##	### ### ### ### ### ### ### ### ### ##	### 150  ###	######################################		######################################	SUSACKS   TSU   SUSACKS   TS	Usack  Usack  Usack
### ### ### ### ### ### ### ### ### ##	## A ST	## A Comment of the c	teri/ty/td/for  teri/ty/td/for  for a in TSU-  en in TSU-  for a in TSU-  for a in TSU-  for a in TSU-  for a in TSU-  en in TSU-  for a in T	### ### ### ### ### ### ### ### ### ##	######################################		######################################	SUSACKS TSU  2.0  3.0  3.0  3.0  3.0  3.0  3.0  3.0	SUsack  Susack  Susack
### ### ### ### ### ### ### ### ### ##	tendance TSU  te	## STANDAY CONTROL  ## STA	ter/fr/td/fon  ter/fr/td/fon  for a in TSUs  60, 64], dtyp  60, 64], dtyp  for ain TSUs  for ain TSU	######################################	### ### ### ### ### ### ### ### ### ##				Jack Susack

out[348	date         attendance           o         2005- 09-03         25342           at         2005- 09-10         48300           at         2005- 09-17         5263           at         2005- 09-24         56297           at         2005- 10-01         42310	72 75 77 77 26 117 117	154 103 170 238	62 11 110 10 99	returnyards TS  32  47  -2  67  49	Utackles TSI 47 59 95 70 75	20 29 17 56 56	2.0 3.0 1.0 7.0 6.0	13 16 6 50 37
ıt[349	df2006=df2006.il df2006.head()	TSUrushyards TSUro							0 23 6 7 4
n [350 ut[350	df2007=df2007.il df2007.head()  date attendance  0 2007- 09-01 23440  1 2007- 09-08 50879  2 2007- 09-15 8359  3 2007- 09-22 15371	TSUrushyards TSUrushyards TSUrushyards 153							15 16 26 36 23
In [351 Out[351	#2008 df2008=pd.read_c #get rid of unna df2008=df2008.il df2008.head()	rsv('2008.csv')  mmed 1st variable  coc[:,1:]  TSUrushyards TSUra  107  148  148	that's just t	he index put (	on when file	was saved	to a csv .	file	
In [352 Out[352	#2009 df2009=pd.read_c #get rid of unna df2009=df2009.il df2009.head()	136 csv('2009.csv') amed 1st variable	241 that's just t	95 he index put d		61 was saved	37 to a csv .	3 file	23
In [353 Out[353	#2010 df2010=pd.read_c #get rid of unna df2010=df2010.il df2010.head()	csv('2010.csv') amed 1st variable							15 <b>Isackyd TS</b> 40 0 13
In [354 Out[354	#2010- 10-02 35217 #2011 df2011=pd.read_c #get rid of unna df2011=df2011.il df2011.head()	379  csv('2011.csv')  mmed 1st variable  coc[:,1:]  TSUrushyards TSUrushyards	142 that's just t	20 he index put d	13 on when file	66 was saved	34 to a csv .	5.0	31
In [355 Out[355	3 2011- 09-24 33487 4 2011- 10-01 8614 #2012 df2012=pd.read_c #get rid of unna df2012=df2012.il df2012.head() date attendance 0 2012- 09-01 15652 1 2012- 09-08 42257	csv('2012.csv')  amed 1st variable  oc[:,1:]  TSUrushyards TSUre	-	-					0 10 <b>Psackyd TS</b> 5 20
In [356 Out[356	df2013=df2013.il df2013.head()  date attendance  0 2013- 09-01 16108  1 2013- 09-07 14237  2 2013-	esv('2013.csv') amed 1st variable							30 29 <b>Bsackyd TS</b> 4 18
In [357 Out[357	3 2013- 09-21 10044 4 2013- 09-28 22000 #2014 df2014=pd.read_c #get rid of unna df2014=df2014.il df2014.head() date attendance  0 2014- 08-30 10541  1 2014- 09-06 15725	95 311  csv('2014.csv') amed 1st variable oc[:,1:]  TSUrushyards TSUra 439	343 228 that's just t	63 46 he index put o	23 75 on when file	76 70 was saved	51 44 to a csv .	3.0 3.0	28 17
In [358 Out[358	df2015=df2015.il df2015.head()	92 125  csv('2015.csv')  mmed 1st variable coc[:,1:]  TSUrushyards TSUrushyards							33 28 44 <b>Jsackyd TS</b> 12
In [359 Out[359	df2016=df2016.il df2016.head()	169 85 csv('2016.csv') amed 1st variable							0 22 0 <b>Dsackyd TS</b> 31
In [360 Out[360	df2017=df2017.il df2017.head()	TSUrushyards TSUre							1 12 3 <b>Isackyd TS</b> 17
In [361 Out[361	2 2017- 09-17 17102 3 2017- 09-23 6484 4 2017- 09-30 11013 #2018 df2018=pd.read_c #get rid of unnal df2018=df2018.il df2018.head()	100  83  csv('2018.csv')  mmed 1st variable  coc[:,1:]  TSUrushyards TSUrushyards 201	-	-					0 5 0 <b>Jsackyd TS</b> 35
In [362 Out[362	2018- 09-29 27340  3 2018- 10-06 12201  4 2018- 10-13 3318  #2019 df2019=pd.read_cd #get rid of unnadf2019=df2019.ild df2019.head()  date attendance  0 2019- 08-31 13458	104  164  63  csv('2019.csv')  amed 1st variable  coc[:,1:]  TSUrushyards TSUrushyards	269 325 307  that's just t eceiveyards TSUkr	105 134 140 he index put of the eturnyards TSUp	3 34 -1 on when file returnyards TS 61	69 77 74  was saved Utackles TSI 58	5 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11	0.0 0.0 1.0 file Usacks TSU	0 7 7 <b>Isackyd TS</b>
In [363 Out[363	20912 2019- 09-07 48347 3 2019- 09-21 8683 4 2019- 09-28 8861 #append all annufullstats=df2003 #sort full data fullstats=fullst fullstats.head()	<pre>frame by date ats.sort_values(</pre>	df2005,df2006, df2013,df2014, 'date')	df2007,df2008, df2015,df2016,	df2009, df201	.0,df2011, .8,df2019]	,ignore_ind		7 8 3 5 <b>21</b>
In [364 Out[364	#get rid of unna scores=scores.il scores.head()  date city	esv('scores.csv')  amed 1st variable  coc[:,1:]  state winscore losse	<b>core loser</b> South	winner lo	cale TSU op score	oonent score	ediff scoredi	ff_abs winl	
In [365	1 2003- 09-06 Huntsville 2 2003- 09-13 Memphis 3 2003- 09-20 Atlanta 4 2003- 09-27 Nashville #merge scores an #year variable i	AL 31  TN 44  GA 10  TN 41  and fullstats data as the in both da erge (fullstats, one	ta frames so u	University  Alabama A&M A University  Tennessee State A University  Florida A&M University  A  Tennessee State Ho University	way 24 way 44 way 7 ome 41 to distingu		17 -7 -3 31 variable ca	7 L 30 V 31 V	Oss 2003  Vin 2003  Vin 2003  Win 2003
Out[365		e AL 31 s TN 44 a GA 10	South Carolina State University  Tennessee 24 State University  Jackson 14 State University  Tennessee 7 State University  University  University  University  University	winner locale  Tennessee    State University  Alabama    A&M Away University  Tennessee    State University  Florida    A&M Away University  Tennessee    State Home	37 24 44	1501	113 141 209 153	<b>Ureceiveyard</b> 36 14	5 6 2
In [367	8 TSU score 9 opponent sco 10 scorediff 11 scorediff_ah 12 winloss 13 year_scores 14 attendance 15 TSUrushyards 16 TSUreceiveya 17 TSUkreturnya 18 TSUpreturnya 19 TSUtackles 20 TSUtackleyd 21 TSUsacks 22 TSUsackyd 23 TSUpunt 24 year_fullsta dtypes: float64(1 memory usage: 38.  More Data V (conference/ date a dateti  #create opponent mydata['opponent #frequency of op #TSU played East #University of Ter Tennessee Tech Uni University of Ter Tennessee Tech Uni Southeast Missour Eastern Illinois Jackson State Univ University of Ter Tennessee Tech Uni Southeast Missour Eastern Kentucky Murray State Univ Jacksonville State Florida A&M University Samford University Bethune Cookman University Southern University Vanderbilt Un	191 non-nul 191 no	l object l int64 l int64 l object l object l object l object l int64 l	pping one Tennessee Stat	of the year	ear vari	'loser'],my	ind ma	nner'])
	Vanderbilt University of Ark Alabama State University of Ark Alabama State University of Carolina Ak Air Force Academy Central State University Edward Waters Col Georgia State University Mississippi Valle Middle Tennessee Name: opponent, of #create variable	Ransas Pine Bluff Eversity Eate University Extra University Eversity Elege Eversity Extra University Extra U	3 3 2 2 2 ty 2 1 1 1 1 1 1 1 1 1 1 1 1 1 nonconference	.isin(["Austir "Tenness "Belmor "Jackso "Murray "Univers	n Peay State see Tech Univ nt University Dnville State State University	versity"," v","Easter e Universi csity", "S	Eastern Ili n Kentucky ty", "Morel outhern Ili	linois Un Universi head State	iversity" ty", e Univers
Out[368	#conference game mydata['gametype  conference nonconference Name: gametype, co  #drop one of the mydata['year']=m mydata=mydata.dr mydata.columns  Index(['date', 'c	mme type more conference general gener	from the merge es'] ','year_fullst winscore', 'lo ponent score', TSUrushyards', turnyards', 'T	ats'], axis=1) sscore', 'lose 'scorediff', 'TSUreceiveya' SUtackles', ''	er', 'winner 'scorediff_ ards', [SUtackleyd'	', abs',	19. About	two-third	s of TSU
Out[370	mydata.dtypes  date city state winscore losscore loser winner locale TSU score opponent score scorediff scorediff_abs winloss attendance TSUrushyards TSUreceiveyards TSUreceiveyards TSUpreturnyards TSUpreturnyards TSUtackles TSUtackleyd TSUsacks	object object object int64 int64 object object object int64							
In [371	TSUsackyd TSUpunt opponent gametype year dtype: object  #make date a dat mydata['date']=p #check data type mydata.dtypes  date city state winscore losscore loser winner locale TSU score opponent score scorediff scorediff_abs	int64 int64 object object int64  setime variable od.to_datetime(mydes)  datetime64[ns] object object int64 int64 object object object int64 int64 int64 int64 int64 int64		ormat='%Y-%m-%	sd')				
In [372		object int64 int64 int64 int64 int64 int64 int64 int64 int64 object object int64  additional variatingdata.csv", encode	bles ding="utf-8")						
In [373 Out[373	<pre>mydata=mydata.il mydata.head()</pre>	esv('mydata.csv') amed 1st variable	South Carolina State University  Tennessee A State University  Jackson Te State University Universi	winner locale s  nnessee State Home niversity  Alabama A&M Away niversity  nnessee State Away niversity  Florida A&M Away	TSU opponent score  37 20  24 31  44 14		to a csv  turnyards TS  69  147  138	Upreturnyar	<b>ds TSUtacl</b> 888 8 07
In [374	4 2003- 09-27 Nashville  5 rows × 26 columns  #get data types mydata.dtypes  date city state winscore losscore loser winner locale TSU score opponent score scorediff scorediff_abs winloss attendance TSUrushyards TSUreceiveyards TSUreceiveyards TSUreceiveyards TSUreturnyards TSUpreturnyards TSUtackles TSUtackleyd TSUsacks TSUsackyd TSUpunt opponent	object object object int64 int64 object object object int64	University Te	nnessee State Home niversity	41 10		11		29
Out[375	#There were 191 #The winscore co #The lossscore of #The TSU score of #The opponent so #The scorediff of #The scorediff of #The scorediff of #The TSUrushyard #The TSUrushyard #The TSUreceivey #The TSUreceivey #The TSUreceivey #The TSUbreturny #T	losscore TSU score	frame and eac   9 to 73 with   m 0 to 44 with   m 0 to 73 with   d from 0 to 63   m -49 to 67 wi   from 1 to 67   om 1,776 to 70   from -18 to 43   ed from -9 to   ed from -19 to   om 37 to 95 wi   rom 0 to 70 wi   0 to 8 with a   m 0 to 55 with   0 to 11 with a    opponent   score  191.00000 191.00	th row provided a mean of about a mean of about with a mean of a with a wi	Id data on al.  11	standard de standard standard and a standard de standard and a standard and a standard andard deventandard de	deviation of devia	f about 1. of about . of about . tion of about . ion of about . iation of eviation of eviation of eviation of about 2. of about 2. about 2.	1. 13. bout 13. out 19. out 12. ion of ak about 75 of about f about t 12. t 14.
In [376		o o o o o o o o o o o o o o o o o o o		21.50000	22306.000000 70185.000000			.000000	110.5000
	mydata.isnull(). date city	0 0 0 0							
In [377	state winscore losscore loser winner locale TSU score opponent score scorediff scorediff_abs winloss attendance TSUrushyards TSUreceiveyards TSUkreturnyards TSUpreturnyards TSUtackles TSUtackles TSUtackleyd TSUsacks TSUsackyd TSUpunt opponent gametype year dtype: int64  #get number of w #Across the 2003 mydata.winloss.v	3-2019 time span,	TSU had a rec	ord of 92-99.					
In [377 Out[378	winscore losscore loser winner locale TSU score opponent score scorediff scorediff_abs winloss attendance TSUrushyards TSUreceiveyards TSUreceiveyards TSUpreturnyards TSUpreturnyards TSUsackles TSUsackleyd TSUsacks TSUsackyd TSUpunt opponent gametype year dtype: int64  #get number of w #Across the 2003 mydata.winloss.v  Loss 99 Win 92 Name: winloss, dt  #get number of w #There was fulct #while 2005 and plt.rcParams['fi winloss_by_year=	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	er year ers of wins an e greatest num 12,8] year")["winlos title="Number	d losses each ber of losses. s"].value_cour of Wins and Lo	nts() osses by Year	·")		er of win.	s across





