**CSV File Handling** CSV Files --> A Comma Separated Values (CSV) file is a plain text file that stores data by delimiting data entries with commas if we want to store the data in form of excel(csv) then we can use csv file handling concept. --> for using csv file in python you need to import one module that is known as csv Example: 121, pratyush, 9721372543, ashu Write Operation in CSV Files In [ ]: For writing Purpose we in csv file we need to use 2 different Methods: writer method --> it ensures in which file you need to write the data writerow method --> it is used to write the data in the first row that will used as a coloumn for rest of the data. In this function you need to pass argument as a list elemnt. Example In [1]: import csv with open("Extra.csv", "w", newline="") as f: w=csv.writer(f) w.writerow(["Student\_name", "Student\_age", "Student Roll no", "Student Mobile\_no", "Student Address"]) n=int(input("Enter Number of Student whose data you want to store ")) #5 for i in range(n): Student\_name=input("Enter Student name :") Student\_age=int(input("Enter Student age :")) Student\_rollno=int(input("Enter Student RollNo :")) Student\_mobile=int(input("Enter Student MobileNumber :")) Student\_Address = input("Enter Student Address :") w.writerow([Student\_name, Student\_age, Student\_rollno, Student\_mobile])#, Student\_Address]) print("Total Students data is stored") Enter Number of Student whose data you want to store 2 Enter Student name : Aditya Enter Student age :21 Enter Student RollNo :23 Enter Student MobileNumber: 987 Enter Student Address : Lucknow Enter Student name : Naman Enter Student age :10 Enter Student RollNo :21 Enter Student MobileNumber :98 Enter Student Address :delhi Total Students data is stored Read Operation in CSV File In [ ]: **for** reading purpose we are having one method named **as**: reader() --> In this function we need to pass file pointer. Example In [6]: import csv f = open("employees.csv", "r") r=csv.reader(f) data = list(r)print(data) [['Employee\_Name', 'Employee\_Number', 'Employee\_Salary', 'Employee\_Mobile'], ['Krish', '90', '90000000', '9721378976'], ['Arnav', '923', '9000000 0', '986'], ['name', '98', '98', '98'], ['tushar', '99', '99', '99']] In [5]: import csv f = open("diabetes.csv", "r") r=csv.reader(f) data = list(r)print(data) [['Pregnancies', 'Glucose', 'BloodPressure', 'SkinThickness', 'Insulin', 'BMI', 'DiabetesPedigreeFunction', 'Age', 'Outcome'], ['6', '148', '72', '35', '0', '33.6', '0.627', '50', '1'], ['1', '85', '66', '29', '0', '26.6', '0.351', '31', '0'], ['8', '183', '64', '0', '0', '23.3', '0.672', '3 2', '1'], ['1', '89', '66', '23', '94<sup>'</sup>, <sup>'</sup>28.1', '0.167', '21', '0'], ['0', '137', '40', '35', '168', '43.1', '2.288', '33', '1'], ['5', '116', '7 4', '0', '0', '25.6', '0.201', '30', '0'], ['3', '78', '50', '32', '88', '31', '0.248', '26', '1'], ['10', '115', '0', '0', '0', '35.3', '0.134', '29', '0'], ['2', '197', '70', '45', '543', '30.5', '0.158', '53', '1'], ['8', '125', '96', '0', '0', '0', '0.232', '54', '1'], ['4', '110', '92', '0', '0', '37.6', '0.191', '30', '0'], ['10', '168', '74', '0', '0', '38', '0.537', '34', '1'], ['10', '139', '80', '0', '0', '27.1', '1.441', '5 7', '0'], ['1', '189', '60', '23', '846', '30.1', '0.398', '59', '1'], ['5', '166', '72', '19', '175', '25.8', '0.587', '51', '1'], ['7', '100', '0', '0', '30', '30', '0.484', '32', '1'], ['0', '118', '84', '47', '230', '45.8', '0.551', '31', '1'], ['7', '107', '74', '0', '29.6', '0.25 4', '31', '1'], ['1', '103', '30', '38', '83', '43.3', '0.183', '33', '0'], ['1', '115', '70', '30', '96', '34.6', '0.529', '32', '1'], ['3', '12 6', '88', '41', '235', '39.3', '0.704', '27', '0'], ['8', '99', '84', '0', '0', '35.4', '0.388', '50', '0'], ['7', '196', '90', '0', '39.8', '0.451', '41', '1'], ['9', '119', '80', '35', '0', '29', '0.263', '29', '1'], ['11', '143', '94', '33', '146', '36.6', '0.254', '51', '1'], ['10', '125', '70', '26', '115', '31.1', '0.205', '41', '1'], ['7', '147', '76', '0', '0', '39.4', '0.257', '43', '1'], ['1', '97', '66', '15', '140', '2 3.2', '0.487', '22', '0'], ['13', '145', '82', '19', '110', '22.2', '0.245', '57', '0'], ['5', '117', '92', '0', '0', '34.1', '0.337', '38', '0'], ['5', '109', '75', '26', '0', '36', '0.546', '60', '0'], ['3', '158', '76', '36', '245', '31.6', '0.851', '28', '1'], ['3', '88', '58', '11', '54'] '24.8', '0.267', '22', '0'], ['6', '92', '92', '0', '0', '19.9', '0.188', '28', '0'], ['10', '122', '78', '31', '0', '27.6', '0.512', '45', '0'], ['4', '103', '60', '33', '192', '24', '0.966', '33', '0'], ['11', '138', '76', '0', '0', '33.2', '0.42', '35', '0'], ['9', '102', '76', '37', '0'] '32.9', '0.665', '46', '1'], ['2', '90', '68', '42', '0', '38.2', '0.503', '27', '1'], ['4', '111', '72', '47', '207', '37.1', '1.39', '56', ['3', '180', '64', '25', '70', '34', '0.271', '26', '0'], ['7', '133', '84', '0', '0', '40.2', '0.696', '37', '0'], ['7', '106', '92', '18', '0', '90', '0', '0', '43.4', '0.583', '42', '1'], ['4', '129', '86', '20', '270', '35.1', '0.231', '23', '0'], ['1', '79', '75', '30', '0', '32', '0.39 6', '22', '0'], ['1', '0', '48', '20', '0', '0', '0'], ['7', '62', '78', '0', '0', '32.6', '0.391', '41', '0'], ['5', '95', '72', '33', '0', '37.7', '0.37', '27', '0'], ['0', '131', '0', '0', '0', '43.2', '0.27', '26', '1'], ['2', '112', '66', '22', '0', '25', '0.307', '24', '0'], ['3', '113', '44', '13', '0', '22.4', '0.14', '22', '0'], ['2', '74', '0', '0', '0', '0', '0.102', '22', '0'], ['7', '83', '78', '26', '71', '0.27', '0.2 '29.3', '0.767', '36', '0'], ['0', '101', '65', '28', '0', '24.6', '0.237', '22', '0'], ['5', '137', '108', '0', '0', '48.8', '0.227', '37', '1'], ['2', '110', '74', '29', '125', '32.4', '0.698', '27', '0'], ['13', '106', '72', '54', '0', '36.6', '0.178', '45', '0'], ['2', '100', '68', '25', '71', '38.5', '0.324', '26', '0'], ['15', '136', '70', '32', '110', '37.1', '0.153', '43', '1'], ['1', '107', '68', '19', '0', '26.5', '0.165', '24', '0'], ['1', '80', '55', '0', '0', '19.1', '0.258', '21', '0'], ['4', '123', '80', '15', '176', '32', '0.443', '34', '0'], ['7', '81', '78', '48'] 0', '48', '46.7', '0.261', '42', '0'], ['4', '134', '72', '0', '0', '23.8', '0.277', '60', '1'], ['2', '142', '82', '18', '64', '24.7', '0.761', '2
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In this function you need to pass argument as a list elemnt. Example In [10]: import csv with open("Employees.csv", "a", newline="") as f: w=csv.writer(f) w.writerow(["Student\_name", "Student\_age", "Student Roll no", "Student Mobile\_no", "Student Address"]) n=int(input("Enter Number of Student whose data you want to store ")) #5 **for** i **in** range(n): Student\_name=input("Enter Student name :") Student\_age=int(input("Enter Student age :")) Student\_rollno=int(input("Enter Student RollNo :")) Student\_mobile=int(input("Enter Student MobileNumber :")) Student\_Address = input("Enter Student Address :") w.writerow([Student\_name, Student\_age, Student\_rollno, Student\_mobile])#, Student\_Address]) print("Total Students data is stored") Enter Number of Student whose data you want to store 2 Enter Student name :Naman Enter Student age :21 Enter Student RollNo :98 Enter Student MobileNumber :98 Enter Student Address : lucknow Enter Student name : Pratyush Enter Student age :21 Enter Student RollNo :90 Enter Student MobileNumber :95 Enter Student Address : Delhi Total Students data is stored XML File Handling In [ ]: XML --> Extensible markup language. --> if you want to store your data in the form of tags then you need to use xml file handling. --> Markup languages are those languages which consists of tags. <head> </head> --> then you need to **import** one module that **is** xmltodict --> for converting xml data to python dictionary we need to use parse method which is present in xmltodict module Example In [11]: import xmltodict my\_xml = """ <audience> <id>123</id> <name>Ankur</name> </audience> 0.00 s = xmltodict.parse(my\_xml) {'audience': {'id': '123', 'name': 'Ankur'}} In [12]: import xmltodict my\_xml = """<note> <to>Tove</to> <from>Jani <heading>Reminder</heading> <body>Don't forget me this weekend!</body> </note> """ s = xmltodict.parse(my\_xml) {'note': {'to': 'Tove', 'from': 'Jani', 'heading': 'Reminder', 'body': "Don't forget me this weekend!"}} In [13]: my\_xml = """ <bookstore> <book category="COOKING"> <title lang="en">Everyday Italian</title> <author>Giada De Laurentiis</author> <year>2005</year> <price>30.00</price> </book> <book category="CHILDREN"> <title lang="en">Harry Potter</title> <author>J K. Rowling</author> <year>2005</year> <price>29.99</price> </book> <book category="WEB"> <title lang="en">Learning XML</title> <author>Erik T. Ray</author> <year>2003</year> <price>39.95</price> </book> </bookstore> """ s = xmltodict.parse(my\_xml) {'bookstore': {'book': [{'@category': 'COOKING', 'title': {'@lang': 'en', '#text': 'Everyday Italian'}, 'author': 'Giada De Laurentiis', 'year': '2005', 'price': '30.00'}, {'@category': 'CHILDREN', 'title': {'@lang': 'en', '#text': 'Harry Potter'}, 'author': 'J K. Rowling', 'year': '2005' 'price': '29.99'}, {'@category': 'WEB', 'title': {'@lang': 'en', '#text': 'Learning XML'}, 'author': 'Erik T. Ray', 'year': '2003', 'price': '39.95'}]}}