In [1]: # if statement In [8]: age **=14 if** age >=18: print("you are an adult!!") elif age>=13: print("you are a teenager !") print("you are a Kid !!") you are a teenager ! In [9]: # for Loop In [11]: countries=["London", "India", "Lagos", "United State", "New York"] countries ['London', 'India', 'Lagos', 'United State', 'New York'] In [13]: for country in countries: print(country) London India Lagos United State New York In [14]: for i, country in enumerate (countries): print(i) print(country) 0 London 1 India Lagos United State New York def function(): return(data) In [16]: def sum(a,b): x=a+b return(x) In [17]: sum(3,4) Out[17]: 7 In [18]: def subtract(e,r): x=e-rreturn(x) subtract(45,10) Out[19]: In [27]: subtract(10,2) Out[27]: countries=[10,2,2,5,8,13] In [26]: len(countries) Out[26]: type(countries) list Out[22]: In [29]: max([10,2,2,5,8,13]) 13 Out[29]: In [30]: min([10,2,2,5,8,13]) Out[30]: In [37]: for i in range(0, 10, 2): print(i) 0 2 4 6 In [38]: # os Module In [39]: import os In [40]: os.getcwd() 'C:\\Users\\TSADO VICTOR' Out[40]: In [41]: os.listdir() ['.conda', Out[41]: '.condarc', '.continuum', '.ipynb\_checkpoints', '.ipython', '.jupyter', '.matplotlib', '.openjfx', '.sambox.cache', '.spyder-py3', '3D Objects', 'AppData', 'Application Data', 'conditional statement.ipynb', 'Contacts', 'Cookies', 'Desktop', 'Documents', 'Downloads', 'Dropbox', 'dwhelper', 'Favorites', 'IntelGraphicsProfiles', 'Links', 'Local Settings', 'Music', 'My Documents', 'NetHood', 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer0000000000000000001.regtrans-ms', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer0000000000000000002.regtrans-ms', 'ntuser.ini', 'OneDrive', 'Pictures', 'PrintHood', 'PycharmProjects', 'Recent', 'Saved Games', 'Searches', 'SendTo', 'Start Menu', 'Templates', 'TeraBox\_1.0.0.10.exe', 'Untitled.ipynb', 'Untitled1.ipynb', 'Untitled2.ipynb', 'Untitled3.ipynb', 'Videos'] In [44]: os.makedirs("new folder") In [45]: os.listdir() ['.conda', Out[45]: '.condarc', '.continuum', '.ipynb\_checkpoints', '.ipython', '.jupyter', '.matplotlib', '.openjfx', '.sambox.cache', '.spyder-py3', '3D Objects', 'AppData', 'Application Data', 'conditional statement.ipynb', 'Contacts', 'Cookies', 'Desktop', 'Documents', 'Downloads', 'Dropbox', 'dwhelper', 'Favorites', 'IntelGraphicsProfiles', 'Links', 'Local Settings', 'Music', 'My Documents', 'NetHood', 'new folder' 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer0000000000000000001.regtrans-ms', 'NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer0000000000000000002.regtrans-ms', 'ntuser.ini', 'OneDrive', 'Pictures', 'PrintHood', 'PycharmProjects', 'Recent', 'Saved Games', 'Searches', 'SendTo', 'Start Menu', 'Templates', 'TeraBox\_1.0.0.10.exe', 'Untitled.ipynb', 'Untitled1.ipynb', 'Untitled2.ipynb', 'Untitled3.ipynb', 'Videos'] In [46]: # Read data set df = pd.read\_csv(" .csv") In [48]: # to see all the display of dataframe df=pd.set\_option("display.max\_rows", size of row) In [ ]: # geting access to shape attributes df.shape In [ ]: # pands attributes methods and functions #To get to columns we have to use: df.columns # built in functions in python: max() min() len() In [ ]: # methods is a functions that is define inside a class body: note that method is with parantesis e.g df.head(), df.tail(),df.info(),df.describe() while attributes are without parantesis e.g df.shape, df.columns, df.index, df.dtypes, In [ ]: # using Function in dataframe len(df) --- (# show the number of rows). max(df) --(# will not get anything ) but if: max(df.index) --- (# to get maximum index). min(df.index) --(# to get the mininmum index). round(df, 2) ---- (# if the datas are in float you will see something, but **if** the data **is in** integers you will **not** see anything) In [ ]: # -how to selecte one (1) column [] in dataframe df[" "] --- at the parantesis put in [ "argument" = column] ----- series 0R df.column --- (# how to select one cloumn [ ] in datafrane with (dot) . , with . (dot) (# have a pitfall where the argumnets column have two variable e.g [mark score]) # how to selecte two (2) or more columns [] in dataframe will need 2 squre bracket e.g df[["gender","mark score"]] # to check the data type type(df[["gender","mark score"]]) ----- dataframe if check type NOTE: one [ ] use will give series but if two [[]] use will give dataframe df[["gender", "mark score", "reading score", "writing score"]] ---- # to get other columns In [49]: # how to add column into dataframe import numpy as np language score = np.arange(0 ,1000) df["language score"]= language\_score df ----enter 0R # create random integers number between 1 and 100 int\_language\_score = np.random.randint(1 ,100. size=1000) File "C:\Users\TSADOV~1\AppData\Local\Temp/ipykernel\_13024/18413499.py", line 4 language score = np.arange(0 ,1000)

**SyntaxError:** invalid syntax