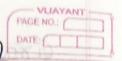
G. H. Raisoni College Of Engineering And Management, Wagholi Pune				
<u>2021- 2022</u>				
Group B :-Assignment no :-4				
Department	CE [SUMMER 2022 (Online)]			
Term / Section	III/B	Date Of submission		23-11-2021
Subject Name /Code	Python for Data Science / UCSP204			
Roll No.	SCOB77	Name	Pratham Rajkumar pitty	
Registration Number	2020AC0E1100107			



Aim > Write a Python program to read except Sumple file of 100 records into Datation by using Pandas library

Also write these 100 records into purticular sheet of excel file

Theory it

data analysis. Started by wes Mckinney in 2008.

Pandas is build ontop oftwo

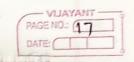
(1) matplotlib Fox data visualization 1

fondas acts as a warpper over these libraries allowing you to access many of matplotlib's and Numpy's methods with less code.

For instance, 'pandas'. Plot() (ambines multiple matplotlib method, enabling you to plot a chart in a few lines.

Pandas introduced two new types of objects for Storing data that make analytical tasks easier and eliminate the need to Switch tools: Series, which have a list-like structure and Data Frames which have a tabular structure.

Pandas Duta Frame: Pondas Duta Frame is two-D Size mutable, potentialls heterogeneous tabular data structure with labeled axes (rows and column)



A Dota frame is a two-dimensional data Structure ie, data is aligned in a tubulox Fastion irrows and columns pandas Data frame consides of three principal component the data rows, and columns.

Features of Data Frame

- · Potentially columns are of different types
- · Size-mutable
- · Labeled axes (rows and columns)
- · can perform Arithmetic operations on rows ancolumns

(SV. (Comma-Separated value) Files are common files Formut for trunsfersing and

The basic process of loading data from CSV File the "read_(SV" Function in Pandas:

Contition mor total

impost pondas as pd # Read data from file File name CSV data = Pd. read _CSV ("Filename, CSV) dota bead ()

```
In [1]: import pandas as pd
        # create dataframe :- file read operation to read csv file
data= pd.read_csv('C:\\Users\\prath\Videos\\#2.second year\\sem3\PDS\\vgsales.csv')
        print (data)
        writer = pd.ExcelWriter('C:\\Users\\prath\Videos\\#2.second year\\sem3\PDS\\vgsales.xlsx')
        data.to_excel(writer)
        writer.save()
        print('DataFrame is written successfully to Excel File.')
                                                       Name Platform Year
                                                                                     Genre \
             Rank
        0
                                                 Wii Sports
                                                                 Wii 2006
                1
                                                                                    Sports
        1
                                         Super Mario Bros.
                                                                  NES 1985
                                                                                  Platform
        2
                                            Mario Kart Wii
                                                                  Wii
                                                                       2008
                3
                                                                                    Racing
                                         Wii Sports Resort
        3
                                                                  Wii 2009
                                                                                    Sports
                                                                  GB 1996 Role-Playing
        4
                                  Pokemon Red/Pokemon Blue
                5
        94
               95
                     The Legend of Zelda: Ocarina of Time
                                                                 N64 1998
                                                                                    Action
        95
               96
                  Crash Bandicoot 2: Cortex Strikes Back
                                                                  PS 1997
                                                                                  Platform
        96
               97
                                      Super Mario Bros. 2
                                                                 NES
                                                                       1988
                                                                                  Platform
                      Super Smash Bros. for Wii U and 3DS
Call of Duty: World at War
                                                                       2014
                                                                                  Fighting
        97
               98
                                                                  3DS
        98
               99
                                                                X360 2008
                                                                                   Shooter
                                Publisher NA_Sales EU_Sales JP_Sales Other_Sales \
        0
                                 Nintendo
                                              41.49
                                                         29.02
                                                                     3.77
                                                                                   8.46
        1
2
                                 Nintendo
                                               29.08
                                                          3.58
                                                                     6.81
                                                                                   0.77
                                 Nintendo
                                              15.85
                                                         12.88
                                                                     3.79
                                                                                   3.31
        3
                                 Nintendo
                                              15.75
                                                         11.01
                                                                     3.28
                                                                                   2.96
        4
                                 Nintendo
                                              11.27
                                                          8.89
                                                                    10.22
                                                                                   1.00
        94
                                 Nintendo
                                                4.10
                                                          1.89
                                                                     1.45
                                                                                   0.16
        95
            Sony Computer Entertainment
                                                3.78
                                                          2.17
                                                                     1.31
                                                                                   0.31
        96
                                 Nintendo
                                                5.39
                                                          1.18
                                                                     0.70
                                                                                   0.19
        97
                                 Nintendo
                                                3.24
                                                          1.35
                                                                     2.42
                                                                                   0.43
        98
                               Activision
                                                4.79
                                                          1.90
                                                                     0.00
                                                                                   0.69
             Global_Sales
                    82.74
                    40.24
        1
        2
                    35.82
        3
                    33.00
        4
                    31.37
        94
                     7.60
        95
                     7.58
        96
                     7.46
        97
                     7.45
        98
                     7.37
         [99 rows x 11 columns]
          **************
        \label{lem:decomposition} {\sf DataFrame} \ \ {\sf is} \ \ {\sf written} \ \ {\sf successfully} \ \ {\sf to} \ \ {\sf Excel} \ \ {\sf File.}
```