Project Synopsis

Name - Sahil Garje
Class - XII A1
Roll No. - 1
Subject - Informatics Practices(065)
Project Name - 'The Gaming Nemesis'
Based on - Python

Contents:

- ♦ Certificate
- ♦ Acknowledgement
- ♦ Aim
- ♦ Introduction
- ♦ Coding (with output)
- ♦ Pie Chart
- ♦ Merits
- ♦ Demerits
- ♦ Conclusion

Certificate:

This is to certify that **Sahil Garje** of class **XII**has worked under my supervision on project
'**The Gaming Nemesis**' and completed it to my full satisfaction

Acknowledgement:

- I am thankful to my Informatics Practices teacher Mrs. Revati who helped and guided me while successfully completing this project.
- Also I would like to thank CBSE for giving ample amount of time for the completion of this project.

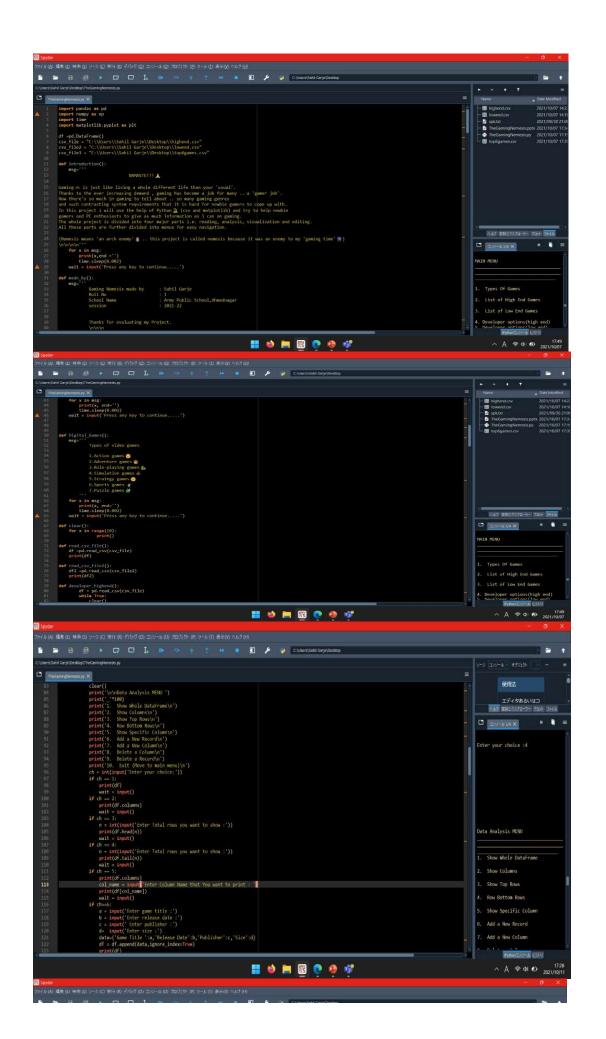
Aim:

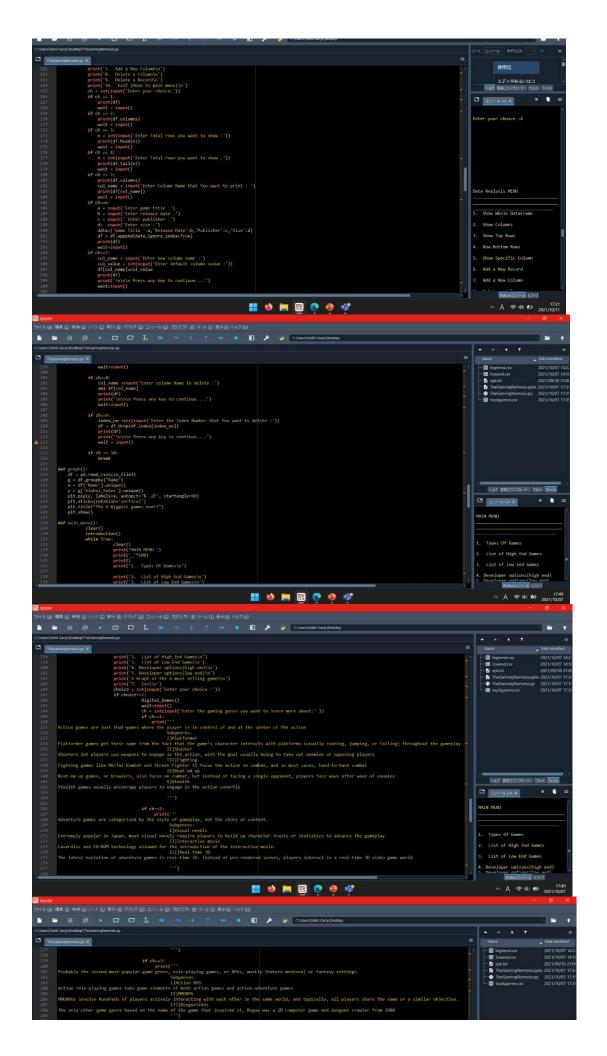
- This project titled 'The Gaming Nemesis' aims at helping newbie gamers and PC enthusiasts to find or to build a PC that matches their requirements for High/Mid/Low end gaming.
- Also this Project will help the already 'gaming geeks' to edit the
 list of games and also the 'Pie chart of gaming'.

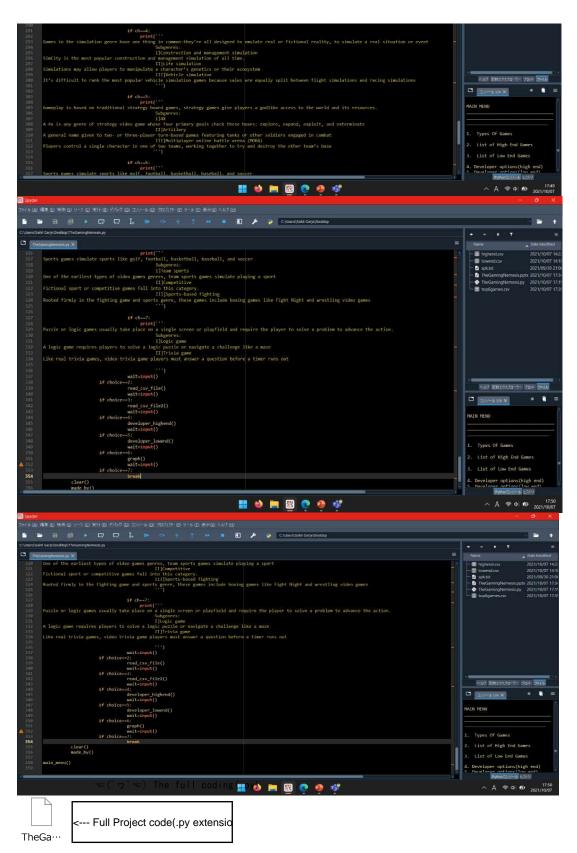
Introduction:

- ♦ This Project has been made to :
- A}Learn about the types of PC games
- B}Knowing the System Requirements of different types of PC games
- C}Giving out a list of low/high end games
- D}Giving Developer Options (to edit option C})
- E}Display Graphs of Top gaming companies and the most popular games.

Project Code:



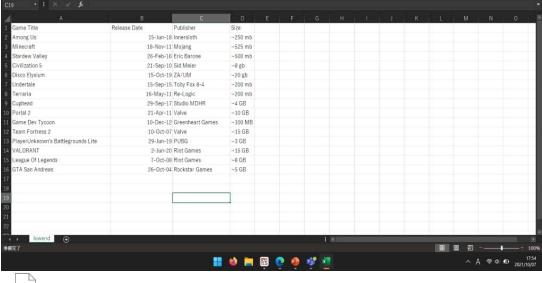




CSV Files used :

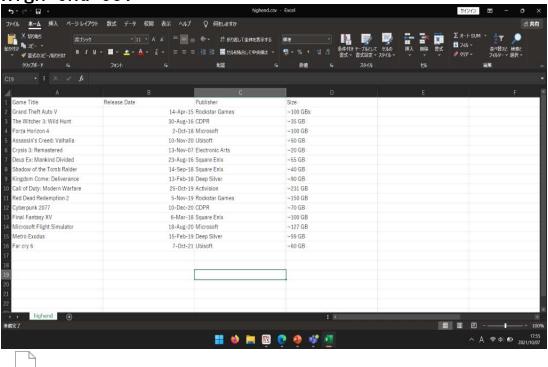
Low end csv





lowend

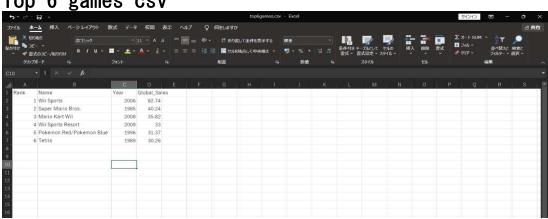
High end csv





highend

Top 6 games csv





Output:

Introduction Screen

```
Gaming makes is just like living a whole different life than your 'usual'.

Thanks to the ever increasing demand , gaming has become a job for many .. a 'gamer job'.

Now there's so much in gaming to tell about .. so many gaming genres
and such contrasting system requirements that it is hard for newbie gamers to cope up with.

In this project i will use the help of Python (csv and matplotlib) and try to help newbie
gamers and PC enthusiasts to give as much information as i can on gaming.

The whole project is divided into four major parts i.e. reading, analysis, visualization and editing.

All these parts are further divided into menus for easy navigation.

(Nemesis means 'an arch enemy' ... this project is called nemesis because it was an enemy to my 'gaming time' )

Press any key to continue....
```

Main menu

```
MAIN MENU

1. Types Of Games

2. List of High End Games

3. List of Low End Games

4. Developer options(high end)

5. Developer options(low end)

6 Graph of the 6 most selling games
```

Enter your choice :

Option 1(types of games)

```
Types of video games

1.Action games 2
2.Adventure games 3
3.Role-playing games 4
4.Simulation games 4
5.Strategy games 3
6.Sports games 4
7.Puzzle games 3

Press any key to continue....
```

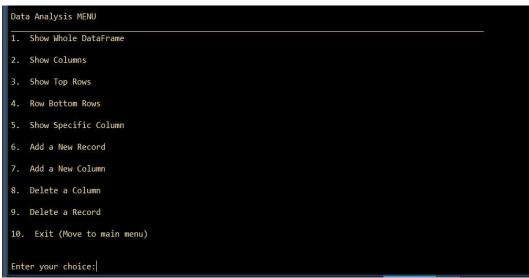
Option 2(List of high end games)

```
Enter your choice :2
                     Game Title Release Date
                                                      Publisher
                                                                     Size
              Grand Theft Auto V
                                    14-Apr-15
                                                 Rockstar Games
                                                                 ~100 GBs
        The Witcher 3: Wild Hunt
                                    30-Aug-16
                                                           CDPR
                                                                   ~35 GB
                 Forza Horizon 4
                                     2-0ct-18
                                                     Microsoft
                                                                  ~100 GB
      Assassin's Creed: Valhalla
                                    10-Nov-20
                                                       Ubisoft
                                                                   ~50 GB
                                    13-Nov-07
                                                                   ~20 GB
            Crysis 3: Remastered
                                               Electronic Arts
        Deus Ex: Mankind Divided
                                    23-Aug-16
                                                    Square Enix
                                                                   ~55 GB
       Shadow of the Tomb Raider
                                    14-Sep-18
                                                    Square Enix
                                                                   ~40 GB
                                                    Deep Silver
       Kingdom Come: Deliverance
                                    13-Feb-18
                                                                   ~90 GB
    Call of Duty: Modern Warfare
                                    25-0ct-19
                                                    Activision
                                                                  ~231 GB
           Red Dead Redemption 2
                                     5-Nov-19
                                                 Rockstar Games
                                                                  ~150 GB
10
                  Cyberpunk 2077
                                    10-Dec-20
                                                           CDPR
                                                                   ~70 GB
11
                Final Fantasy XV
                                     6-Mar-18
                                                    Square Enix
                                                                  ~100 GB
12
     Microsoft Flight Simulator
                                    18-Aug-20
                                                     Microsoft
                                                                  ~127 GB
                    Metro Exodus
13
                                    15-Feb-19
                                                    Deep Silver
                                                                   ~59 GB
14
                       Far cry 6
                                     7-0ct-21
                                                        Ubisoft
                                                                   ~60 GB
```

Option 3(List of low end games)

```
Enter your choice :3
                            Game Title Release Date
                                                              Publisher
                                                                            Size
                               Among Us
                                           15-Jun-18
                                                             Innersloth ~250 mb
                              Minecraft
                                                                         ~525 mb
                                           18-Nov-11
                                                                 Mojang
                         Stardew Valley
                                           26-Feb-16
                                                                         ~500 mb
                                                            Eric Barone
                         Civilization 5
                                           21-Sep-10
                                                              Sid Meier
                                                                           ~8 gb
                                           15-0ct-19
                                                                  ZA/UM
                         Disco Elysium
                                                                          ~20 gb
5
                              Undertale
                                           15-Sep-15
                                                           Toby Fox 8-4
                                                                         ~200 mb
                                           16-May-11
                                                               Re-Logic
                               Terraria
                                                                         ~200 mb
                                                            Studio MDHR
                                           29-Sep-17
                                                                           ~4 GB
                                Cuphead
8
                                           21-Apr-11
                                                                           ~10 GB
                               Portal 2
                                                                  Valve
                                           10-Dec-12
                                                                         ~100 MB
                        Game Dev Tycoon
                                                       Greenheart Games
10
                        Team Fortress 2
                                           10-0ct-07
                                                                  Valve
                                                                          ~15 GB
    PlayerUnknown's Battlegrounds Lite
                                           29-Jun-19
                                                                   PUBG
                                                                           ~3 GB
12
                                            2-Jun-20
                                                             Riot Games
                                                                          ~15 GB
                               VALORANT
13
                     League Of Legends
                                                             Riot Games
                                            7-0ct-08
                                                                           ~8 GB
                        GTA San Andreas
                                           26-Oct-04
                                                                           ~5 GB
                                                         Rockstar Games
```

Option 4(Developer (high end))



Option 5(Developer (low end))

Data Analysis MENU

1. Show Whole DataFrame

2. Show Columns

3. Show Top Rows

4. Row Bottom Rows

5. Show Specific Column

6. Add a New Record

7. Add a New Column

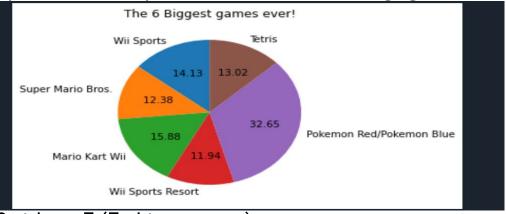
8. Delete a Column

9. Delete a Record

10. Exit (Move to main menu)

Enter your choice:

Option 6(Graph of 6 most selling games)



Option 7(Exit screen)

Gaming Nemesis made by : Sahil Garje

```
School Name : Army Public School, Ahmednagar session : 2021-22

Thanks for evaluating my Project.

Press any key to continue.....

In [78]:
```

Merits:

Merits:

- ♦ Can edit the list of games
- Navigation panes instead of showing everything at once
- Beginner Friendly
- Has a variety of games(low/high)

Demerits:

Demerits:

- Needs constant updates as the tech changes
- \diamond Not much useful for non-beginners
- ♦ Focus on consoles & cloud gaming isn't there
- ♦ To use it on another PC CSV file path always needs to be changed.

Refrences:

References

♦ Webliography:

- 1) ntrps://www.tutorialaicsip.com/cs-xii-pra/project-synopsis-cose-class-
- 2) https://www.youtube.com/watch?v=cleVKR-vyOc
- 3 https://www.slideshare.net/JasmeetSingh38/ip-project-50175201

Bibliography:

Sumita Arora(2020), "Informatics Practices Class XII", Dhanpat Rai & Co.

Sumita Arora(2019), "Informatics Practices Class XI", Dhanpat Rai & Co.

Conclusion:

Conclusion:

This project is like a symbiotic relation between Beginners and non-beginners. The beginners use the information provided to them so that they can learn the basics of gaming from a 'hardware' view and the non-beginners add up to this information using their own knowledge.