**CODING (Python)**

**def main():**

**c = 'y'**

**while c == 'y':**

**loginwindow = input("TO Login as USER (Enter U)\nTO Login as ADMIN (Enter A) \n: ").upper()**

**print()**

**if loginwindow == "A":**

**adminwindow()**

**elif loginwindow == "U":**

**program()**

**else:**

**print("Invalid Input")**

**exit()**

**else:**

**print('wrong input')**

**def program():**

**cont = "y"**

**if cont == "y":**

**def pcgaming():**

**import pandas as pd**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**print("Can I Run It ?")**

**print(**

**"System requirement application to find games that can run on your computer,\nAnd to provide you with Game Price, "**

**"Price of the PC(Based upon the configuration provided by you + other important parts required to build the PC)\n"**

**"What games your laptop/PC can run - from our list of over 70 PC games. \n")**

**print("Tell us about your PC specification from the following option's\n ")**

**graphics = (input("Choose from the folLowing GRAPHICS CARD\n"**

**" Geforce GTX 1050 Ti (ENTER g1)\n "**

**" Geforce GTX 1060 (ENTER g2)\n "**

**" Geforce GTX 1070 Ti (ENTER g3)\n "**

**" : ")).lower()**

**print()**

**g1 = "Geforce GTX 1050 Ti"**

**g2 = "Geforce GTX 1060"**

**g3 = "Geforce GTX 1070 Ti"**

**if graphics == "g1":**

**g = g1**

**elif graphics == "g2":**

**g = g2**

**elif graphics == "g3":**

**g = g3**

**else:**

**return "ERROR"**

**processor = (input("Choose from the folLowing PROCESSOR\n"**

**" Intel core i3 (ENTER p1)\n "**

**" Intel core i5 (ENTER p2)\n "**

**" Intel core i7 (ENTER p3)\n "**

**" : ")).lower()**

**print()**

**p1 = "i3"**

**p2 = "i5"**

**p3 = "i7"**

**if processor == "p1":**

**p = p1**

**elif processor == "p2":**

**p = p2**

**elif processor == "p3":**

**p = p3**

**else:**

**return "ERROR"**

**memory = (input("Choose from the folLowing MEMORY\n"**

**" 4GB RAM (ENTER r1)\n"**

**" 8GB RAM (ENTER r2)\n"**

**"16GB RAM (ENTER r3)\n"**

**" : ")).lower()**

**r1 = "4GB"**

**r2 = "8GB"**

**r3 = "16GB"**

**if memory == "r1":**

**r = r1**

**elif memory == "r2":**

**r = r2**

**elif memory == "r3":**

**r = r3**

**else:**

**return "ERROR"**

**cursor = pcgbm.cursor()**

**cursor.execute(**

**f'select G\_name,storage\_GB\_,price\_$\_,ReviewScore\_outof100,PCprice\_Rs from pcgbm where processor="{p}" and graphics="{g}" and memory="{r}"')**

**myresult = cursor.fetchall()**

**data = pd.DataFrame(myresult, columns=['Game Name', 'Storage(GB)', 'Price($)', 'ReviewScore(out of 100)',**

**'PCprice(Rs)'])**

**pd.set\_option('display.max\_rows' and 'display.max\_columns', None)**

**for row in range(len(data)):**

**print()**

**print(data.loc[row])**

**print()**

**def graph():**

**def again():**

**again1 = input("\nDO YOU WANT TO SEE MORE GRAPHS (ENTER Y) : ").upper()**

**if again1 == 'Y':**

**graph()**

**import matplotlib.pyplot as mat**

**def mypieU():**

**label1 = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti']**

**sizes = [23, 27, 21]**

**colors1 = ['yellowgreen', 'lightskyblue', 'magenta']**

**mat.title("Games in PCGBM for various Graphics card")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**a = mat.show()**

**print(a)**

**label1 = ['i3', 'i5', 'i7']**

**sizes = [25, 22, 24]**

**colors1 = ['red', 'blue', 'magenta']**

**mat.title("Games in PCGBM for various Processors")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**b = mat.show()**

**print(b)**

**label1 = ['4GB', '8GB', '16GB']**

**sizes = [24, 19, 28]**

**colors1 = ['lightskyblue', 'yellowgreen', 'brown']**

**mat.title("Games in PCGBM for various RAM")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**c = mat.show()**

**print(c)**

**label1 = ['Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100']**

**sizes = [14, 22, 20, 12, 3]**

**colors1 = ['red', 'blue', 'magenta', 'yellowgreen', 'brown']**

**mat.title("Games in PCGBM for various prices($)\n")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**d = mat.show()**

**print(d)**

**label1 = ['40 to 60', '61 to 80', '81 to 100']**

**sizes = [3, 19, 48]**

**colors1 = ['red', 'blue', 'cyan', ]**

**mat.title("Games in PCGBM for various Review Score out of 100\n")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**e = mat.show()**

**print(e)**

**def barU():**

**import numpy as np**

**import matplotlib.pyplot as mat15**

**objects = ('Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti')**

**y\_pos = np.arange(len(objects))**

**types = (23, 27, 21)**

**mat15.bar(y\_pos, types, align='center', color='yellowgreen')**

**mat15.xticks(y\_pos, objects)**

**mat15.ylabel('Number Of Games')**

**mat15.title('Number Of Games According to Graphics Card')**

**mat15.show()**

**import numpy as np**

**import matplotlib.pyplot as mat14**

**objects = ('i3', 'i5', 'i7')**

**y\_pos = np.arange(len(objects))**

**types = (25, 22, 24)**

**mat14.bar(y\_pos, types, align='center', color='lightgreen')**

**mat14.xticks(y\_pos, objects)**

**mat14.ylabel('Number Of Games')**

**mat14.title('Number Of Games According to processor')**

**mat14.show()**

**import numpy as np**

**import matplotlib.pyplot as mat13**

**objects = ('4GB', '8GB', '16GB')**

**y\_pos = np.arange(len(objects))**

**types = (24, 19, 28)**

**mat13.bar(y\_pos, types, align='center', color='lightskyblue')**

**mat13.xticks(y\_pos, objects)**

**mat13.ylabel('Number Of Games')**

**mat13.title('Number Of Games According to RAM')**

**mat13.show()**

**import numpy as np**

**import matplotlib.pyplot as mat12**

**objects = ('Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100')**

**y\_pos = np.arange(len(objects))**

**types = (14, 22, 20, 12, 3)**

**mat12.bar(y\_pos, types, align='center', color='brown')**

**mat12.xticks(y\_pos, objects)**

**mat12.ylabel('Number Of Games')**

**mat12.title('Number Of Games According to Various prices($)')**

**mat12.show()**

**import numpy as np**

**import matplotlib.pyplot as mat11**

**objects = ('40 to 60', '61 to 80', '81 to 100')**

**y\_pos = np.arange(len(objects))**

**types = (3, 19, 48)**

**mat11.bar(y\_pos, types, align='center', color='magenta')**

**mat11.xticks(y\_pos, objects)**

**mat11.ylabel('Number Of Games')**

**mat11.title('Number Of Games According to Various review score(out of 100)')**

**mat11.show()**

**def lineU():**

**label1 = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti']**

**sizes = [23, 27, 21]**

**import matplotlib.pyplot as mat10**

**mat10.plot(label1, sizes)**

**mat10.title("Games in PCGBM for various Graphics card")**

**mat10.xlabel('Graphics card')**

**mat10.ylabel('No. Of Games')**

**mat10.show()**

**label1 = ['i3', 'i5', 'i7']**

**sizes = [25, 22, 24]**

**import matplotlib.pyplot as mat9**

**mat9.plot(label1, sizes)**

**mat9.title("Games in PCGBM for various Processors")**

**mat9.xlabel('Processors')**

**mat9.ylabel('No. Of Games')**

**mat9.show()**

**label1 = ['4GB', '8GB', '16GB']**

**sizes = [24, 19, 28]**

**import matplotlib.pyplot as mat8**

**mat8.plot(label1, sizes)**

**mat8.title("Games in PCGBM for various RAM")**

**mat8.xlabel('Ram')**

**mat8.ylabel('No. Of Games')**

**mat8.show()**

**label1 = ['Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100']**

**sizes = [14, 22, 20, 12, 3]**

**import matplotlib.pyplot as mat7**

**mat7.plot(label1, sizes)**

**mat7.title("Games in PCGBM for various prices($)\n")**

**mat7.xlabel('Prices($)')**

**mat7.ylabel('No. Of Games')**

**mat7.show()**

**label1 = ['40 to 60', '61 to 80', '81 to 100']**

**sizes = [3, 19, 48]**

**import matplotlib.pyplot as mat6**

**mat6.plot(label1, sizes)**

**mat6.title("Games in PCGBM for various Review Score out of 100\n")**

**mat6.xlabel('Review score')**

**mat6.ylabel('No. Of Games')**

**mat6.show()**

**def scatterU():**

**import matplotlib.pyplot as mat5**

**label1 = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti']**

**sizes = [23, 27, 21]**

**mat5.scatter(label1, sizes, c="blue")**

**mat5.show()**

**import matplotlib.pyplot as mat4**

**label1 = ['i3', 'i5', 'i7']**

**sizes = [25, 22, 24]**

**mat4.scatter(label1, sizes, c="green")**

**mat4.show()**

**import matplotlib.pyplot as mat3**

**label1 = ['4GB', '8GB', '16GB']**

**sizes = [24, 19, 28]**

**mat3.scatter(label1, sizes, c="green")**

**mat3.show()**

**import matplotlib.pyplot as mat2**

**label1 = ['Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100']**

**sizes = [14, 22, 20, 12, 3]**

**mat2.scatter(label1, sizes, c="green")**

**mat2.show()**

**import matplotlib.pyplot as mat1**

**label1 = ['40 to 60', '61 to 80', '81 to 100']**

**sizes = [3, 19, 48]**

**mat1.scatter(label1, sizes, c="green")**

**mat1.show()**

**print('\nSelect the graph you want to see')**

**print('1.Pie chart')**

**print('2.Bar graph')**

**print('3.Line Graph')**

**print('4.Scatter plot')**

**choice = int(input('Enter choice of graphs : '))**

**if choice == 1:**

**mypieU()**

**again()**

**elif choice == 2:**

**barU()**

**again()**

**elif choice == 3:**

**lineU()**

**again()**

**elif choice == 4:**

**scatterU()**

**again()**

**else:**

**print("\nWRONG INPUT \nCHOOSE AGAIN")**

**graph()**

**forgraphs1 = input("\nIF YOU WANT TO SEE GRAPHS (ENTER Y) : ").lower()**

**if forgraphs1 == "y":**

**graph()**

**print(pcgaming())**

**rerun = input("\nDo you want run the program again \nIf yes then type y \nElse enter anything\n: ").lower()**

**print()**

**if rerun == 'y':**

**main()**

**print()**

**else:**

**print("I wish you have a Good Day!!")**

**exit()**

**def adminwindow():**

**loginid = "pcgbm"**

**password = "\*\*\*\*"**

**lid = input("Enter LoginID : ")**

**passwd = input("Enter Password : ")**

**if lid == loginid and passwd == password:**

**print("Access Granted!!\n")**

**print("1. Add Record")**

**print("2. Delete record")**

**print("3. Show records")**

**print("4. Update records")**

**print("5. Graphs")**

**print("6. Exit")**

**print()**

**choice = int(input("Enter choice : "))**

**if choice == 1:**

**adddata()**

**elif choice == 2:**

**deldata()**

**elif choice == 3:**

**fetchdata()**

**elif choice == 4:**

**print("What do you want to Update ?\n")**

**print("1. Game name")**

**print("2. Processor")**

**print("3. Memory")**

**print("4. Storage")**

**print("5. Price")**

**print("6. Review Score")**

**print("7. Graphics")**

**print("8. PC price")**

**choice = int(input("Enter Choice : "))**

**if choice == 1:**

**updateG\_name()**

**elif choice == 2:**

**updateprocessor()**

**elif choice == 3:**

**updatememory()**

**elif choice == 4:**

**updatestorage()**

**elif choice == 5:**

**updateprice()**

**elif choice == 6:**

**updateReviewScore()**

**elif choice == 7:**

**updategraphics()**

**elif choice == 8:**

**updatePCprice()**

**else:**

**print("wrong input")**

**elif choice == 5:**

**graphs()**

**print()**

**elif choice == 6:**

**print("Exiting")**

**exit()**

**else:**

**print("wrong input")**

**else:**

**print("Exiting")**

**exit()**

**def adddata():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**p = str(input("processor from Intel core i3, Intel core i5 and Intel core i7 : "))**

**m = str(input("memory from 4GB, 8GB and 16GB : "))**

**gr = str(input("graphics from Geforce GTX 1050 Ti, Geforce GTX 1060 and Geforce GTX 1070 Ti : "))**

**s = int(input("storage\_GB\_ : "))**

**pr = int(input("price\_$\_ : "))**

**pl = str(input("platform : ")).upper()**

**r = str(input("ReviewScore\_outof100 : "))**

**pc = int(input("PCprice\_Rs : "))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'insert into pcgbm values("{g}","{p}","{m}","{gr}","{s}","{pr}","{pl}","{r}","{pc}");')**

**pcgbm.commit()**

**print("records added")**

**r1 = input("Do you want to ADD more records : ")**

**if r1 == "y":**

**adddata()**

**print()**

**ad1 = input("Do you want to return to Admin Window : ")**

**if ad1 == "y":**

**adminwindow()**

**else:**

**exit()**

**def deldata():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'delete from pcgbm where G\_name="{g}"')**

**pcgbm.commit()**

**print("records deleted")**

**r2 = input("Do you want to DELETE more records : ")**

**if r2 == "y":**

**deldata()**

**print()**

**ad2 = input("Do you want to return to Admin Window : ")**

**if ad2 == "y":**

**adminwindow()**

**else:**

**exit()**

**def fetchdata():**

**import mysql.connector**

**from mysql.connector import Error**

**try:**

**pcgbm = mysql.connector.connect(host='localhost',**

**database='pcgbm',**

**user='root',**

**password='abc@123')**

**sql\_select\_query = "select \* from pcgbm"**

**cursor = pcgbm.cursor()**

**cursor.execute(sql\_select\_query)**

**records = cursor.fetchall()**

**print("Total number of rows in database is : ", cursor.rowcount)**

**print("\nPrinting each record")**

**for row in records:**

**print("G\_name = ", row[0], )**

**print("processor = ", row[1])**

**print("memory = ", row[2])**

**print("graphics = ", row[3])**

**print("storage\_GB\_ = ", row[4])**

**print("price\_$\_ = ", row[5])**

**print("platform = ", row[6])**

**print("ReviewScore\_outof100 = ", row[7])**

**print("PCprice\_Rs = ", row[8], "\n")**

**except Error as e:**

**print("Error reading data from MySQL table", e)**

**print()**

**ad13 = input("Do you want to return to Admin Window : ")**

**if ad13 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updateG\_name():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("Old game name : "))**

**g1 = str(input("New Game Name : "))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set G\_name="{g1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**print()**

**r3 = input("Do you want to UPDATE more Games name : ")**

**if r3 == "y":**

**updateG\_name()**

**print()**

**ad23 = input("Do you want to return to Admin Window : ")**

**if ad23 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updateprocessor():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**p1 = str(input("New processor:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set processor="{p1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r4 = input("Do you want to UPDATE processor of more games : ")**

**if r4 == "y":**

**updateprocessor()**

**print()**

**a1d2 = input("Do you want to return to Admin Window : ")**

**if a1d2 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updategraphics():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**gr1 = str(input("New graphics:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set graphics="{gr1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r5 = input("Do you want to UPDATE Graphics of more Games : ")**

**if r5 == "y":**

**updategraphics()**

**print()**

**a2d2 = input("Do you want to return to Admin Window : ")**

**if a2d2 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updatememory():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**m1 = str(input("New memory:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set memory="{m1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r6 = input("Do you want to UPDATE Memory of more Games : ")**

**if r6 == "y":**

**updatememory()**

**print()**

**a3d2 = input("Do you want to return to Admin Window : ")**

**if a3d2 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updatestorage():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**s1 = str(input("New storage:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set storage\_GB\_="{s1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r7 = input("Do you want to UPDATE Storage of more Games : ")**

**if r7 == "y":**

**updatestorage()**

**print()**

**ad24 = input("Do you want to return to Admin Window : ")**

**if ad24 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updateprice():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**pr1 = str(input("New price:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set price\_$\_="{pr1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r8 = input("Do you want to UPDATE Price of more Games : ")**

**if r8 == "y":**

**updateprice()**

**print()**

**ad5 = input("Do you want to return to Admin Window : ")**

**if ad5 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updateReviewScore():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**r1 = str(input("New ReviewScore:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set ReviewScore\_outof100="{r1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r9 = input("Do you want to UPDATE ReviewScore of more Games : ")**

**if r9 == "y":**

**updateReviewScore()**

**print()**

**ad6 = input("Do you want to return to Admin Window : ")**

**if ad6 == "y":**

**adminwindow()**

**else:**

**exit()**

**def updatePCprice():**

**import mysql.connector**

**pcgbm = mysql.connector.connect(host="localhost", user="root", passwd='abc@123', database="pcgbm")**

**g = str(input("game name : "))**

**pc1 = str(input("New PCprice:"))**

**cursor = pcgbm.cursor()**

**cursor.execute(f'update pcgbm set PCprice\_Rs="{pc1}" where G\_name="{g}"')**

**pcgbm.commit()**

**print("records updated")**

**r10 = input("Do you want to UPDATE PCprice of more Games : ")**

**if r10 == "y":**

**updatePCprice()**

**print()**

**ad7 = input("Do you want to return to Admin Window : ")**

**if ad7 == "y":**

**adminwindow()**

**else:**

**exit()**

**def graphs():**

**def again10():**

**again2 = input("\nDO YOU WANT TO SEE MORE GRAPHS (ENTER Y) : ").upper()**

**if again2 == 'Y':**

**graphs()**

**print()**

**ad9 = input("Do you want to return to Admin Window : ")**

**if ad9 == "y":**

**adminwindow()**

**else:**

**exit()**

**import matplotlib.pyplot as mat**

**def mypie():**

**label1 = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti']**

**sizes = [23, 27, 21]**

**colors1 = ['yellowgreen', 'lightskyblue', 'magenta']**

**mat.title("Games in PCGBM for various Graphics card")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**a = mat.show()**

**print(a)**

**label1 = ['i3', 'i5', 'i7']**

**sizes = [25, 22, 24]**

**colors1 = ['red', 'blue', 'magenta']**

**mat.title("Games in PCGBM for various Processors")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**b = mat.show()**

**print(b)**

**label1 = ['4GB', '8GB', '16GB']**

**sizes = [24, 19, 28]**

**colors1 = ['lightskyblue', 'yellowgreen', 'brown']**

**mat.title("Games in PCGBM for various RAM")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**c = mat.show()**

**print(c)**

**label1 = ['Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100']**

**sizes = [14, 22, 20, 12, 3]**

**colors1 = ['red', 'blue', 'magenta', 'yellowgreen', 'brown']**

**mat.title("Games in PCGBM for various prices($)\n")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**d = mat.show()**

**print(d)**

**label1 = ['40 to 60', '61 to 80', '81 to 100']**

**sizes = [3, 19, 48]**

**colors1 = ['red', 'blue', 'cyan', ]**

**mat.title("Games in PCGBM for various Review Score out of 100\n")**

**mat.pie(sizes, explode=None, labels=label1, colors=colors1, shadow=True, autopct='%1.1f%%',**

**startangle=140)**

**mat.axis('equal')**

**d = mat.show()**

**print(d)**

**def bar():**

**import numpy as np**

**import matplotlib.pyplot as mat15**

**objects = ('Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti')**

**y\_pos = np.arange(len(objects))**

**types = (23, 27, 21)**

**mat15.bar(y\_pos, types, align='center', color='yellowgreen')**

**mat15.xticks(y\_pos, objects)**

**mat15.ylabel('Number Of Games')**

**mat15.title('Number Of Games According to Graphics Card')**

**mat15.show()**

**import numpy as np**

**import matplotlib.pyplot as mat14**

**objects = ('i3', 'i5', 'i7')**

**y\_pos = np.arange(len(objects))**

**types = (25, 22, 24)**

**mat14.bar(y\_pos, types, align='center', color='lightgreen')**

**mat14.xticks(y\_pos, objects)**

**mat14.ylabel('Number Of Games')**

**mat14.title('Number Of Games According to processor')**

**mat14.show()**

**import numpy as np**

**import matplotlib.pyplot as mat13**

**objects = ('4GB', '8GB', '16GB')**

**y\_pos = np.arange(len(objects))**

**types = (24, 19, 28)**

**mat13.bar(y\_pos, types, align='center', color='lightskyblue')**

**mat13.xticks(y\_pos, objects)**

**mat13.ylabel('Number Of Games')**

**mat13.title('Number Of Games According to RAM')**

**mat13.show()**

**import numpy as np**

**import matplotlib.pyplot as mat12**

**objects = ('Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100')**

**y\_pos = np.arange(len(objects))**

**types = (14, 22, 20, 12, 3)**

**mat12.bar(y\_pos, types, align='center', color='brown')**

**mat12.xticks(y\_pos, objects)**

**mat12.ylabel('Number Of Games')**

**mat12.title('Number Of Games According to Various prices($)')**

**mat12.show()**

**import numpy as np**

**import matplotlib.pyplot as mat11**

**objects = ('40 to 60', '61 to 80', '81 to 100')**

**y\_pos = np.arange(len(objects))**

**types = (3, 19, 48)**

**mat11.bar(y\_pos, types, align='center', color='magenta')**

**mat11.xticks(y\_pos, objects)**

**mat11.ylabel('Number Of Games')**

**mat11.title('Number Of Games According to Various review score(out of 100)')**

**mat11.show()**

**def line():**

**label1 = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti']**

**sizes = [23, 27, 21]**

**import matplotlib.pyplot as mat10**

**mat10.plot(label1, sizes)**

**mat10.title("Games in PCGBM for various Graphics card")**

**mat10.xlabel('Graphics card')**

**mat10.ylabel('No. Of Games')**

**mat10.show()**

**label1 = ['i3', 'i5', 'i7']**

**sizes = [25, 22, 24]**

**import matplotlib.pyplot as mat9**

**mat9.plot(label1, sizes)**

**mat9.title("Games in PCGBM for various Processors")**

**mat9.xlabel('Processors')**

**mat9.ylabel('No. Of Games')**

**mat9.show()**

**label1 = ['4GB', '8GB', '16GB']**

**sizes = [24, 19, 28]**

**import matplotlib.pyplot as mat8**

**mat8.plot(label1, sizes)**

**mat8.title("Games in PCGBM for various RAM")**

**mat8.xlabel('Ram')**

**mat8.ylabel('No. Of Games')**

**mat8.show()**

**label1 = ['Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100']**

**sizes = [14, 22, 20, 12, 3]**

**import matplotlib.pyplot as mat7**

**mat7.plot(label1, sizes)**

**mat7.title("Games in PCGBM for various prices($)\n")**

**mat7.xlabel('Prices($)')**

**mat7.ylabel('No. Of Games')**

**mat7.show()**

**label1 = ['40 to 60', '61 to 80', '81 to 100']**

**sizes = [3, 19, 48]**

**import matplotlib.pyplot as mat6**

**mat6.plot(label1, sizes)**

**mat6.title("Games in PCGBM for various Review Score out of 100\n")**

**mat6.xlabel('Review score')**

**mat6.ylabel('No. Of Games')**

**mat6.show()**

**def scatter():**

**import matplotlib.pyplot as mat5**

**label1 = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060', 'Geforce GTX 1070 Ti']**

**sizes = [23, 27, 21]**

**mat5.scatter(label1, sizes, c="blue")**

**mat5.show()**

**import matplotlib.pyplot as mat4**

**label1 = ['i3', 'i5', 'i7']**

**sizes = [25, 22, 24]**

**mat4.scatter(label1, sizes, c="green")**

**mat4.show()**

**import matplotlib.pyplot as mat3**

**label1 = ['4GB', '8GB', '16GB']**

**sizes = [24, 19, 28]**

**mat3.scatter(label1, sizes, c="green")**

**mat3.show()**

**import matplotlib.pyplot as mat2**

**label1 = ['Free', '1 to 20', '$21 to $40', '$41 to $60', '$61 to $100']**

**sizes = [14, 22, 20, 12, 3]**

**mat2.scatter(label1, sizes, c="green")**

**mat2.show()**

**import matplotlib.pyplot as mat1**

**label1 = ['40 to 60', '61 to 80', '81 to 100']**

**sizes = [3, 19, 48]**

**mat1.scatter(label1, sizes, c="green")**

**mat1.show()**

**print('\nSelect the graph you want to see')**

**print('1.Pie chart')**

**print('2.Bar graph')**

**print('3.Line Graph')**

**print('4.Scatter plot')**

**choice = int(input('Enter choice of graphs : '))**

**if choice == 1:**

**mypie()**

**again10()**

**elif choice == 2:**

**bar()**

**again10()**

**elif choice == 3:**

**line()**

**again10()**

**elif choice == 4:**

**scatter()**

**again10()**

**else:**

**print("\nWRONG INPUT \nCHOOSE AGAIN")**

**graphs()**

**main()**