

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"))
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g1)\n "
g2)\n "
g3)\n "

" Geforce GTX 1050 Ti (ENTER
" Geforce GTX 1060 (ENTER
" Geforce GTX 1070 Ti (ENTER
" : ").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"

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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():
    labell = ['Geforce GTX 1050 Ti', 'Geforce
GTX 1060', 'Geforce GTX 1070 Ti']
    sizes = [23, 27, 21]
    colors1 = ['yellowgreen', 'lightskyblue',
'magenta']

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        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')

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        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()

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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():
    labell1 = ['Geforce GTX 1050 Ti', 'Geforce
GTX 1060', 'Geforce GTX 1070 Ti']

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        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

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        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')

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        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 : ")

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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:

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        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":

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        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")

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        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()

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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()
    ald2 = input("Do you want to return to Admin Window : ")
    if ald2 == "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()

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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")

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    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()

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        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():

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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():
    labell1 = ['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=labell1,
colors=colors1, shadow=True, autopct='%1.1f%%',
startangle=140)
    mat.axis('equal')
    a = mat.show()
    print(a)

    labell1 = ['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=labell1,
colors=colors1, shadow=True, autopct='%1.1f%%',
startangle=140)
    mat.axis('equal')
    b = mat.show()
    print(b)

    labell1 = ['4GB', '8GB', '16GB']
    sizes = [24, 19, 28]
    colors1 = ['lightskyblue', 'yellowgreen', 'brown']
    mat.title("Games in PCGBM for various RAM")

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```

    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 plt
    objects = ('Geforce GTX 1050 Ti', 'Geforce GTX 1060',
'Geforce GTX 1070 Ti')
    y_pos = np.arange(len(objects))
    types = (23, 27, 21)
    plt.bar(y_pos, types, align='center',
color='yellowgreen')
    plt.xticks(y_pos, objects)
    plt.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():
    labell = ['Geforce GTX 1050 Ti', 'Geforce GTX 1060',
'Geforce GTX 1070 Ti']
    sizes = [23, 27, 21]
    import matplotlib.pyplot as mat10
    mat10.plot(labell, sizes)
    mat10.title("Games in PCGBM for various Graphics card")
    mat10.xlabel('Graphics card')
    mat10.ylabel('No. Of Games')
    mat10.show()

    labell = ['i3', 'i5', 'i7']
    sizes = [25, 22, 24]
    import matplotlib.pyplot as mat9
    mat9.plot(labell, sizes)
    mat9.title("Games in PCGBM for various Processors")
    mat9.xlabel('Processors')
    mat9.ylabel('No. Of Games')
    mat9.show()

    labell = ['4GB', '8GB', '16GB']
    sizes = [24, 19, 28]
    import matplotlib.pyplot as mat8
    mat8.plot(labell, sizes)
    mat8.title("Games in PCGBM for various RAM")
    mat8.xlabel('Ram')
    mat8.ylabel('No. Of Games')
    mat8.show()

    labell = ['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(labell, 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

```

```

    labell = ['40 to 60', '61 to 80', '81 to 100']
    sizes = [3, 19, 48]
    mat1.scatter(labell, 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()

```