CONTENT

LIBRARY MANAGEMENT SYSTEM

- ***INTRODUCTION***

The library management system is basically a database based project done with help of python language. this project is very usefull for the librarians to keep a count on what project they have and how much they sold or issuied books. This project is multifield project ,so that it can be modified for various purposes.

- ***OBJECTIVES OF THE PROJECT***

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

- *Write programs utilizing modern software tools.*
- *Apply object oriented programming principles effectively when developing small to medium sized projects.*
- *Write effective procedural code to solve small to medium sized problems.*
- *Students will demonstrate a breadth of knowledge in informatics practises , as exemplified in the areas of systems, theory and software development.*
- *Students will demonstrate ability to conduct a research or applied Informatics Practises project, requiring writing and presentation skills which exemplify scholarly style in informatics practises.*

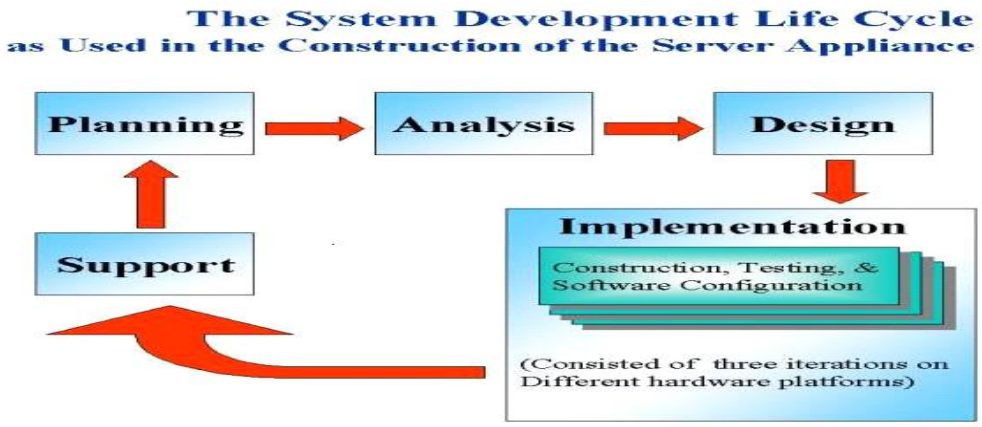
- ***PROPOSED SYSTEM:***

Today one cannot afford to rely on the fallible human beings of be really wants to stand against today's merciless competition where not to wise saying "to err is human" no longer valid, it's outdated to rationalize your mistake. So, to keep pace with time, to bring about the best result without malfunctioning and greater efficiency so to replace the unending heaps of flies with a much sophisticated hard disk of the computer.

One has to use the data management software. Software has been an ascent in atomization various organisations. Many software products working are now in markets, which have helped in making the organizations work easier and efficiently. Data management initially had to maintain a lot of ledgers and a lot of paper work has to be done but now software product on this organization has made their work faster and easier. Now only this software has to be loaded on the computer and work can be done.

This prevents a lot of time and money. The work becomes fully automated and any information regarding the organization can be obtained by clicking the button. Moreover, now it's an age of computers of and automating such an organization gives the better look.

❖ *SYSTEM DEVELOPMENT LIFE CYCLE (SDLC):*



The systems development life cycle is a project management technique that divides complex projects into smaller, more easily managed segments or phases. Segmenting projects allows managers to verify the successful completion of project phases before allocating resources to subsequent phases.

Software development projects typically include initiation, planning, design, development, testing, implementation, and maintenance phases. However, the phases may be divided differently depending on the organization involved.

For example, initial project activities might be designated as request, requirements-definition, and planning phases, or initiation, concept-development, and planning phases. End users of the system under development should be involved in reviewing the output of each phase to ensure the system is being built to deliver the needed functionality

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PHASES OF SYSTEM DEVELOPMENT LIFE CYCLE

- ***INITIATION PHASE***

The Initiation Phase begins when a business sponsor identifies a need or an opportunity. The purpose of the Initiation Phase is to:

- *Identify and validate an opportunity to improve business accomplishments of the organization or a deficiency related to a business need.*
- *Identify significant assumptions and constraints on solutions to that need.*
- *Recommend the exploration of alternative concepts and methods to satisfy the need including questioning the need for technology, i.e., will a change in the business process offer a solution?*
- *Assure executive business and executive technical sponsorship. The Sponsor designates a Project Manager and the business need is documented in a Concept Proposal. The Concept Proposal includes information about the business process andthe relationship to the Agency/Organization.*
- *Infrastructure and the Strategic Plan. A successful Concept Proposal results in a Project Management Charter which outlines the authority of the project manager to begin the project.*

- ***SYSTEM CONCEPT DEVELOPMENT PHASE:***

The System Concept Development Phase begins after a business need or opportunity is validated by the Agency/Organization Program Leadership and the Agency/Organization CIO.

The purpose of the System Concept Development Phase is to:

- *Determine the feasibility and appropriateness of the alternatives.*
- *Identify system interfaces.*
- *Identify basic functional and data requirements to satisfy the business need.*
- *Establish system boundaries; identify goals, objectives, critical success factors, and performance measures.*
- *Evaluate costs and benefits of alternative approaches to satisfy the basic functional requirements*
- *Assess project risks*

- *Identify and initiate risk mitigation actions, andDevelop high-level technical architecture, process models, data models, and a concept of operations. This phase explores potential technical solutions within the context of the business need.*
- *It may include several trade-off decisions such as the decision to use COTS software products as opposed to developing custom software or reusing software components, or the decision to use an incremental delivery versus a complete, onetime deployment.*
- *Construction of executable prototypes is encouraged to evaluate technology to support the business process. The System Boundary Document serves as an important reference document to support the Information Technology Project Request (ITPR) process.*
- *The ITPR must be approved by the State CIO before the project can move forward*

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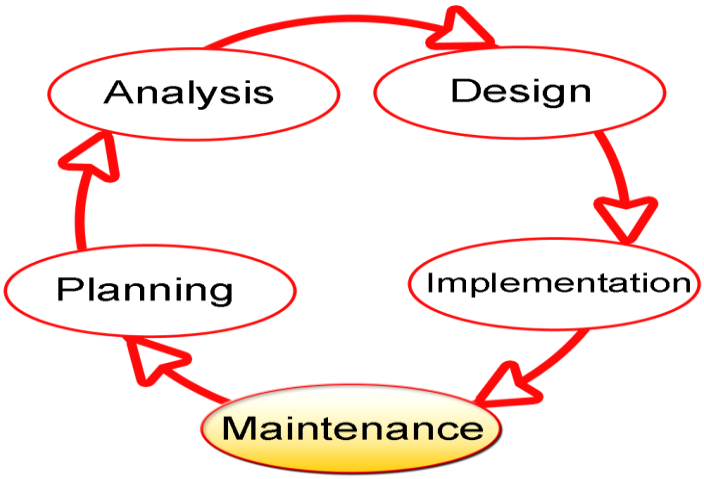
❖ ***PICTORIAL REPRESENTATION OF SDLC:***



- ***PLANNING PHASE:***

The planning phase is the most critical step in completing development, acquisition, and maintenance projects. Careful planning, particularly in the early stages of

a project, is necessary to coordinate activities and manage project risks effectively. The depth and formality of project plans should be commensurate with the characteristics and risks of a given project. Project plans refine the information gathered during the initiation phase by further identifying the specific activities and resources required to complete a project.

A critical part of a project manager' sjob is to coordinate discussions between user, audit, security, design, development, and network personnel to identify and document as many functional, security, and network requirements as possible. During this phase, a plan is developed that documents the approach to be used and includes a discussion of methods, tools, tasks, resources, project schedules, and user input. Personnel assignments, costs, project schedule, and target dates are established.

A Project Management Plan is created with components related to acquisition planning, configuration management planning, quality assurance planning, concept of operations, system security, verification and validation, and systems engineering management planning.

- ***REQUIREMENTS ANALYSIS PHASE:***

This phase formally defines the detailed functional user requirements using high-level requirements identified in the Initiation, System Concept, and Planning phases. It also delineates the requirements in terms of data, system performance, security, and maintainability requirements for the system. The requirements are defined in this phase to alevel of detail sufficient for systems design to proceed. They need to be measurable, testable, and relate to the business need or opportunity identified in the Initiation Phase. The requirements that will be used to determine acceptance of the system are captured in the Test and Evaluation MasterPlan.

- ✓ ***The purposes of this phase are to:***
- *Further define and refine the functional and data requirements and document them in the Requirements Document,*

- *Complete business process reengineering of the functions to be supported (i.e., verify what information drives the business process, what information is generated, who generates it, where does the information go, and who processes it),*
- *Develop detailed data and process models (system inputs, outputs, and the process.*
- *Develop the test and evaluation requirements that will be used to determine acceptable system performance.*

- ***DESIGN PHASE:***

The design phase involves converting the informational, functional, and network requirements identified during the initiation and planning phases into unified design specifications that developers use to scriptprograms during the development phase. Program designs are c onstructed in various ways. Using a top-down approach, designers first identify and link majorprogram components and interfaces, then expand design layouts as they identify and link smaller subsystems and connections. Using a bottom-up approach, designers first identify and link minor program components and interfaces, then expand design layouts as they identify and link larger systems and connections. Contemporary design techniques often use prototyping tools that build mock-up designs of items such as application screens, database layouts, and system architectures. End users, designers, developers, database managers, and network administrators should review and refine the prototyped designs in an iterative process until they agree on an acceptable design. Audit, security, and quality assurance personnel should be involved in the review and approval process. During this phase, the system is designed to satisfy the functional requirements identified in the previous phase. Since problems in the design phase could be very expensive to solve in the later stage of the software development, a variety of elements are considered in the design to mitigate risk.

- ✓ ***These include****:*

- *Identifying potential risks and defining mitigating design features.*
- *Performing a security risk assessment.*

- *Developing a conversion plan to migrate current data to the new system.*
- *Determining the operating environment.*
- *Defining major subsystems and their inputs and outputs.*
- *Allocating processes to resources*.
- *Preparing detailed logic specifications for each software module. The result is a draft System Design Document which captures the preliminary design for the system.*
- *Everything requiring user input or approval is documented and reviewed by the user. Once these documents have been approved by the Agency CIO and Business Sponsor, the final System Design Document is created to serve as the Critical/Detailed Design for the system.*
- *This document receives a rigorous review byAgency technical and functional representatives to ensure that it satisfies the business requirements. Concurrent with the development of the system design, the Agency Project Manager begins development of the Implementation Plan, Operations and Maintenance Manual, and the Training Plan*.

- ***DEVELOPMENT PHASE:***

The development phase involves converting design specifications into executable programs. Effective development standards include requirements that programmers and other project participants discuss design specifications before programming begins. The procedures help ensure programmers clearly understand program designs and functional requirements. Programmers use various techniques to develop computer programs. The large transaction oriented programs associated with financial institutions have traditionally been developed using procedural programming techniques. Procedural programming involves the line-by-line scripting of logical instructions that are combined to form a program.Effective completion of the previous stages is a key factor in the success of the Development phase.

✓ ***The Development phase consists of:***

- *Translating the detailed requirements and design into system components.*
- *Testing individual elements (units) for usability.*
- *Preparing for integration and testing of the IT system.*

- ***INTEGRATION AND TEST PHASE:***

- *Subsystem integration, system, security, and user acceptance testing is conducted during the integration and test phase. The user, with those responsible for quality assurance, validates that the functional requirements, as defined in the functional requirements document, are satisfied by the developed or modified system. OIT Security staff assess the system security and issue a security certification and accreditation prior to installation/implementation.*

- ***Multiple levels of testing are performed, including***:

- *Testing at the development facility by the contractor and possibly supported by end users*
- *Testing as a deployed system with end users working together with contract personnel*
- *Operational testing by the end user alone performing all functions. Requirements are traced throughout testing,a final Independent Verification & Validation evaluation is performed and all documentation is reviewedand accepted prior to acceptance of the system.*

- ***IMPLEMENTATION PHASE:***

This phase is initiated after the system has been tested and accepted by the user. In this phase, the system is installed to support the intended business functions. System performance is compared to performance objectives established during the planning phase. Implementation includes user notification, user training, installation of hardware, installation of software onto production computers, and integration of the system into daily work processes. This phase continues until the system is operating in production in accordance with the defined user requirements.

- ***OPERATIONS AND MAINTENANCE PHASE:***

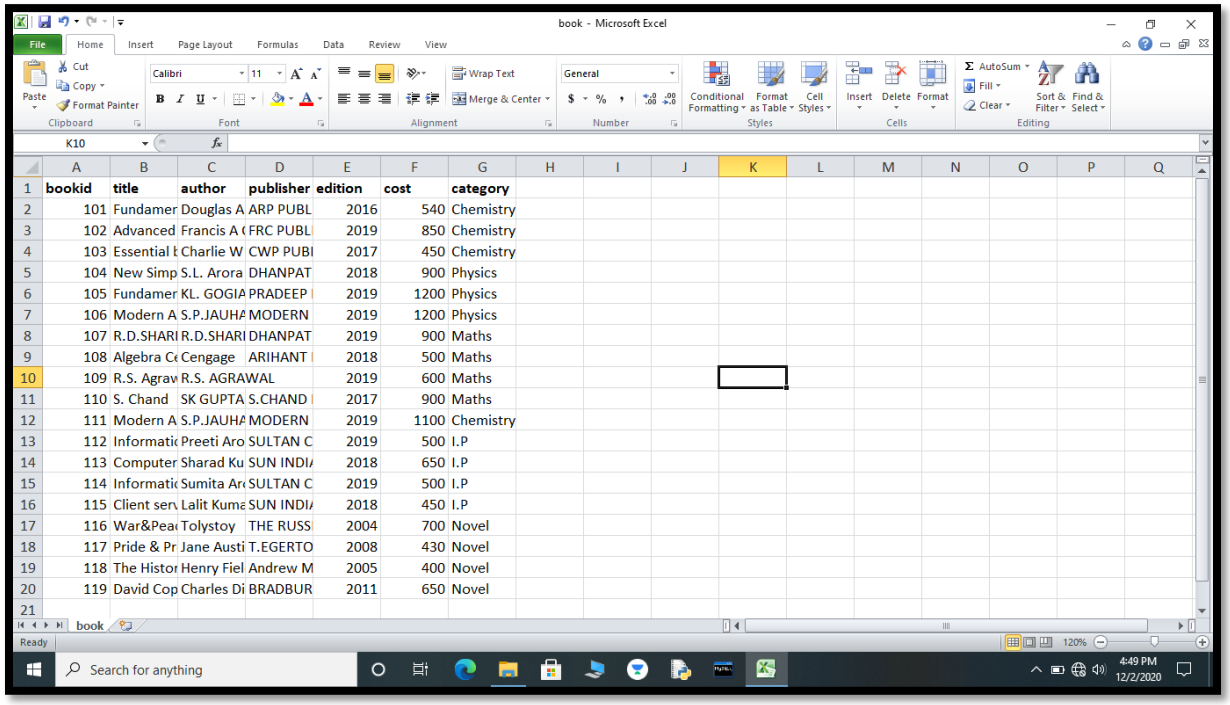
The system operation is ongoing. The system is monitored for continued performance in accordance with user requirements and needed system modifications are incorporated. Operations continue as long as the system can be effectively adapted to respond to the organization's needs. When modifications or changes are identified, the system may reenter the planning phase.

- ***The purpose of this phase is to:***

- *Operate, maintain, and enhance the system.*
- *Certify that the system can process sensitive information.*
- *Conduct periodic assessments of the system to ensure the functional requirements continue to be satisfied.*
- *Determine when the system needs to be modernized, replaced, or retired*.

- ***CSV TABLES :***

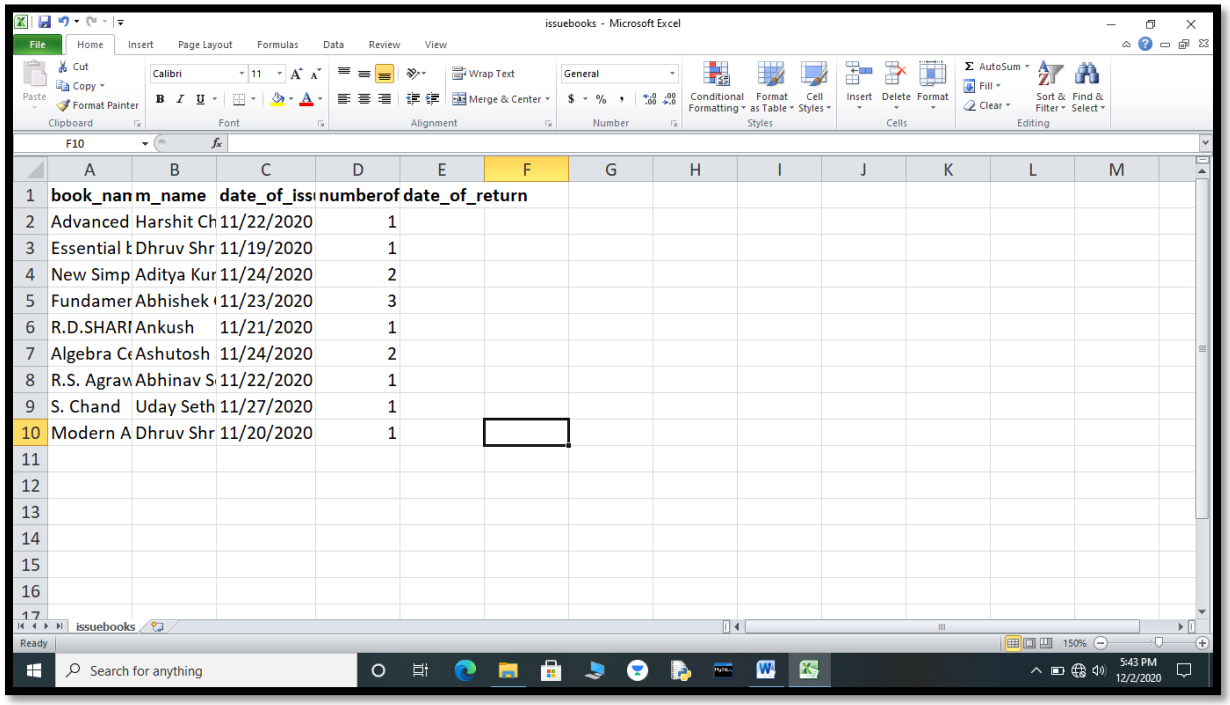
➢ *BOOK AVAILABLE IN LIBRARY:*



book - Microsoft Excel

bookid	title	author	publisher	edition	cost	category
101	Fundamer	Douglas A	ARP PUBL	2016	540	Chemistry
102	Advanced	Francis A (	FRC PUBL	2019	850	Chemistry
103	Essential I	Charlie W	CWP PUBI	2017	450	Chemistry
104	New Simp	S.L. Arora	DHANPAT	2018	900	Physics
105	Fundamer	KL. GOGIA	PRADEEP	2019	1200	Physics
106	Modern A	S.P.JAUHA	MODERN	2019	1200	Physics
107	R.D.SHARI	R.D.SHARI	DHANPAT	2019	900	Maths
108	Algebra C	Cengage	ARIHANT	2018	500	Maths
109	R.S. Agrav	R.S. AGRA	WAL	2019	600	Maths
110	S. Chand	SK GUPTA	S.CHAND	2017	900	Maths
111	Modern A	S.P.JAUHA	MODERN	2019	1100	Chemistry
112	Informatic	Preeti Aro	SULTAN C	2019	500	I.P
113	Computer	Sharad Ku	SUN INDIA	2018	650	I.P
114	Informatic	Sumita Ar	SULTAN C	2019	500	I.P
115	Client serv	Lalit Kuma	SUN INDIA	2018	450	I.P
116	War&Peac	Tolystoy	THE RUSS	2004	700	Novel
117	Pride & Pr	Jane Austi	T.EGERTO	2008	430	Novel
118	The Histor	Henry Fiel	Andrew M	2005	400	Novel
119	David Cop	Charles Di	BRADBUR	2011	650	Novel

➢ *BOOKS ISSUED BY MEMBERS* :



issuebooks - Microsoft Excel

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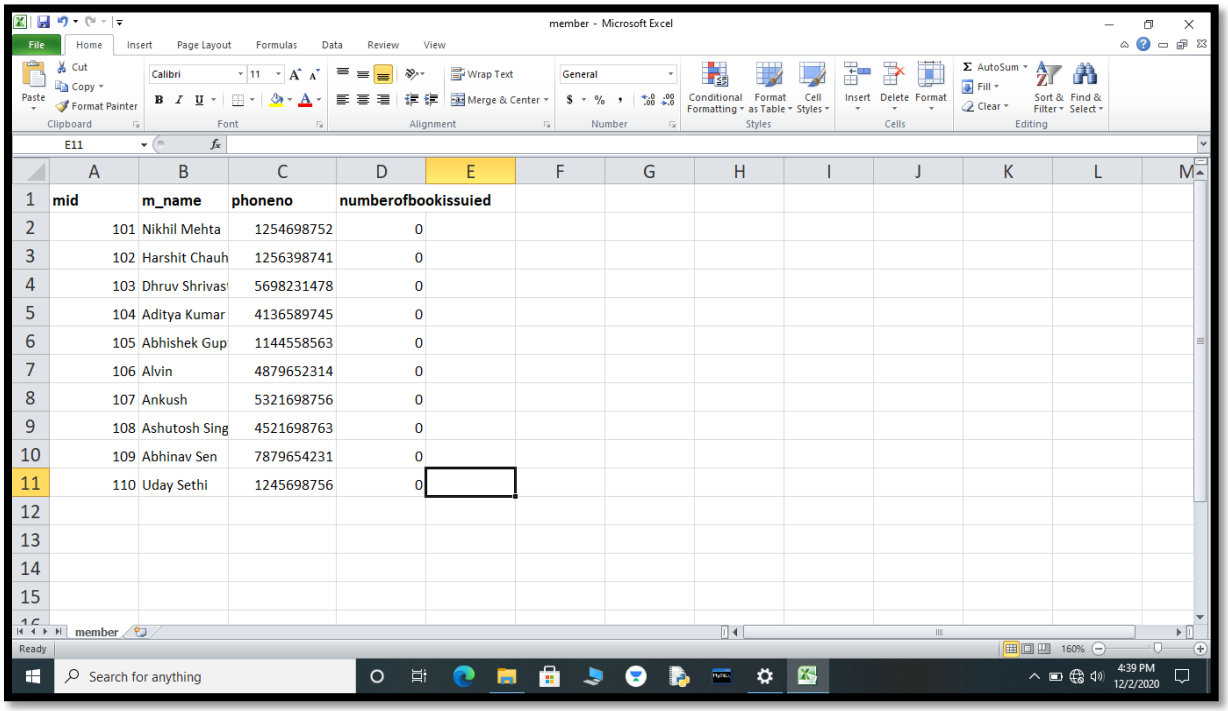
Essential I	Dhruv Shr	11/19/2020	1	
New Simp	Aditya Kur	11/24/2020	2	
Fundamer	Abhishek (	11/23/2020	3	
R.D.SHARI	Ankush	11/21/2020	1	
Algebra C	Ashutosh	11/24/2020	2	
R.S. Agrav	Abhinav S	11/22/2020	1	
S. Chand	Uday Seth	11/27/2020	1	
Modern A	Dhruv Shr	11/20/2020	1	

➢ *MEMBERS OF LIBRARY :*



member - Microsoft Excel

mid	m_name	phoneno	numberofbookissuied
101	Nikhil Mehta	1254698752	0
102	Harshit Chauh	1256398741	0
103	Dhruv Shrivas	5698231478	0
104	Aditya Kumar	4136589745	0
105	Abhishek Gup	1144558563	0
106	Alvin	4879652314	0
107	Ankush	5321698756	0
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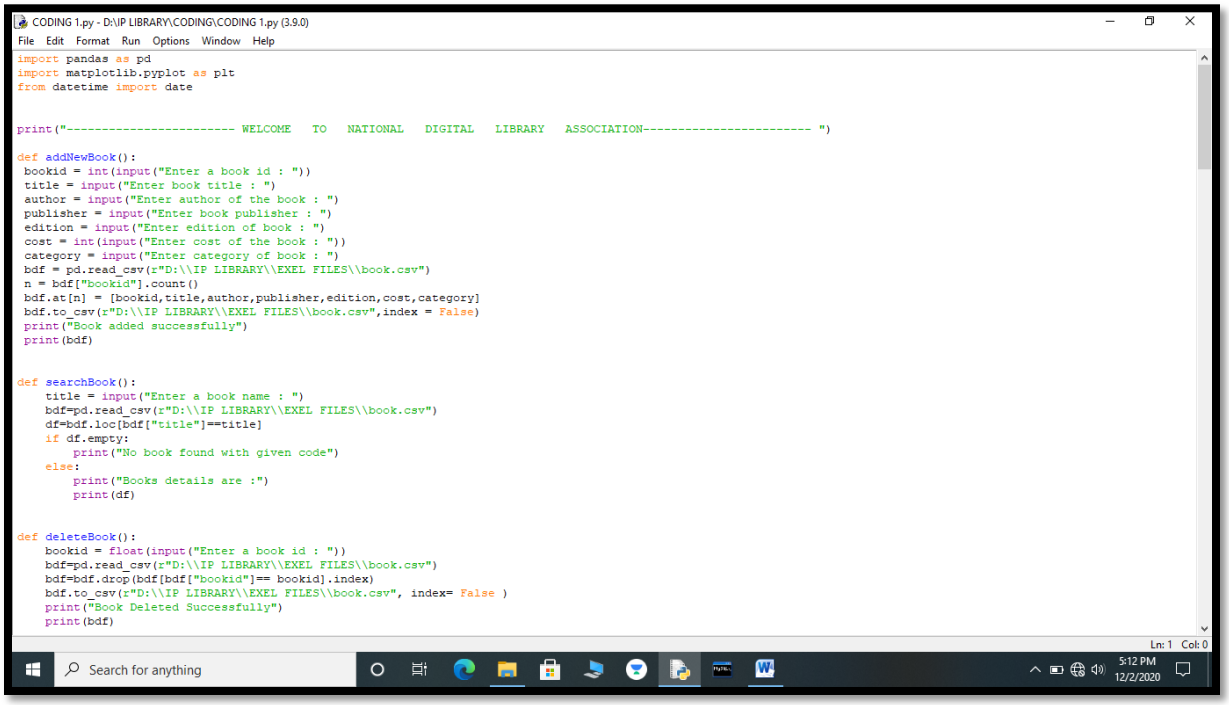
SOURCE CODE:



CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)

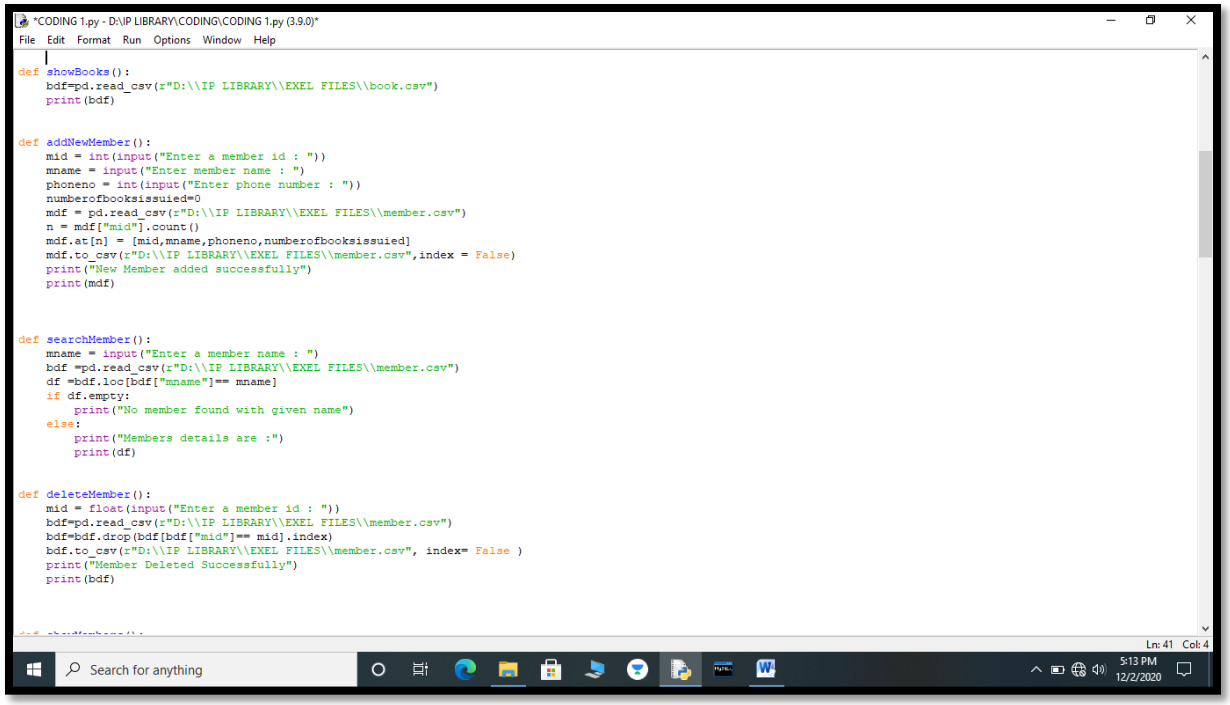
```
import pandas as pd
import matplotlib.pyplot as plt
from datetime import date


print("------------------------ WELCOME   TO   NATIONAL   DIGITAL   LIBRARY   ASSOCIATION------------------------ ")

def addNewBook():
 bookid = int(input("Enter a book id : "))
 title = input("Enter book title : ")
 author = input("Enter author of the book : ")
 publisher = input("Enter book publisher : ")
 edition = input("Enter edition of book : ")
 cost = int(input("Enter cost of the book : "))
 category = input("Enter category of book : ")
 bdf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv")
 n = bdf["bookid"].count()
 bdf.at[n] = [bookid,title,author,publisher,edition,cost,category]
 bdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv",index = False)
 print("Book added successfully")
 print(bdf)


def searchBook():
    title = input("Enter a book name : ")
    bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv")
    df=bdf.loc[bdf["title"]==title]
    if df.empty:
        print("No book found with given code")
    else:
        print("Books details are :")
        print(df)


def deleteBook():
    bookid = float(input("Enter a book id : "))
    bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv")
    bdf=bdf.drop(bdf[bdf["bookid"]== bookid].index)
    bdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv", index= False )
    print("Book Deleted Successfully")
    print(bdf)
```


CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)
File Edit Format Run Options Window Help
def showBooks():
bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv")
print(bdf)
def addNewMember():
mid = int(input("Enter a member id : "))
mname = input("Enter member name : ")
phoneno = int(input("Enter phone number : "))
numberofbooksissuied=0
mdf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv")
n = mdf["mid"].count()
mdf.at[n] = [mid,mname,phoneno,numberofbooksissuied]
mdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv",index = False)
print("New Member added successfully")
print(mdf)
def searchMember():
mname = input("Enter a member name : ")
bdf =pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv")
df =bdf.loc[bdf["mname"]== mname]
if df.empty:
print("No member found with given name")
else:
print("Members details are :")
print(df)
def deleteMember():
mid = float(input("Enter a member id : "))
bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv")
bdf=bdf.drop(bdf[bdf["mid"]== mid].index)
bdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv", index= False)
print("Member Deleted Successfully")
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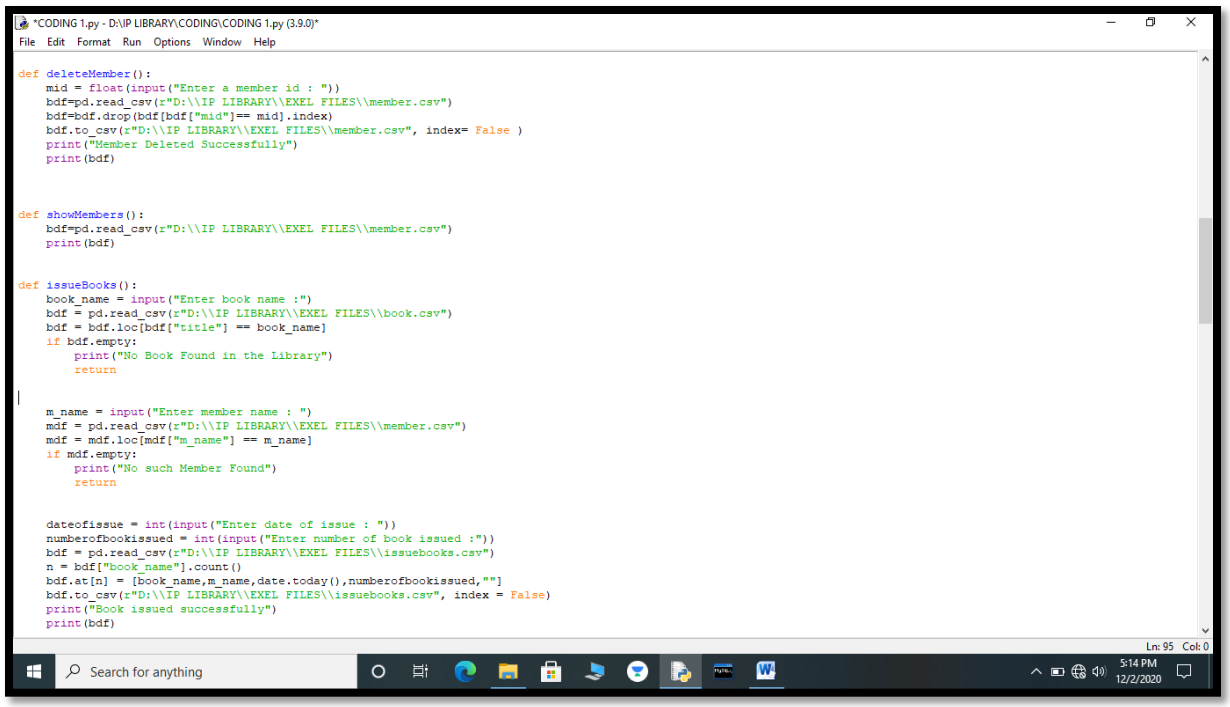
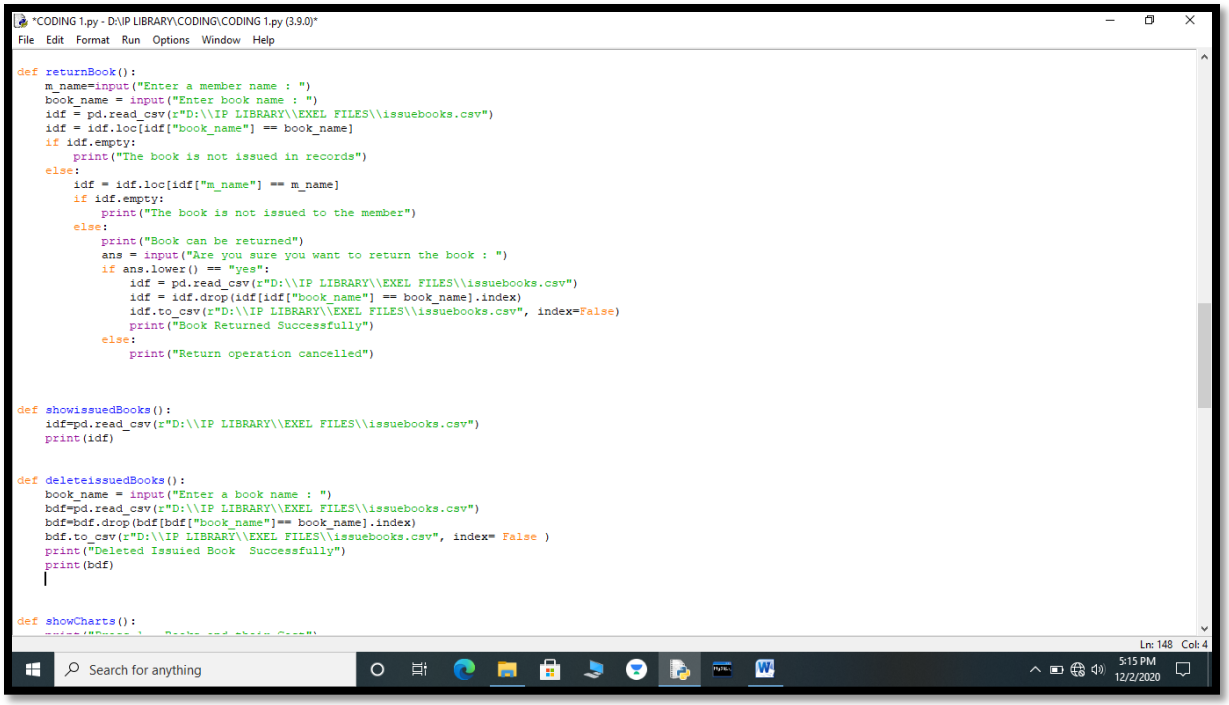
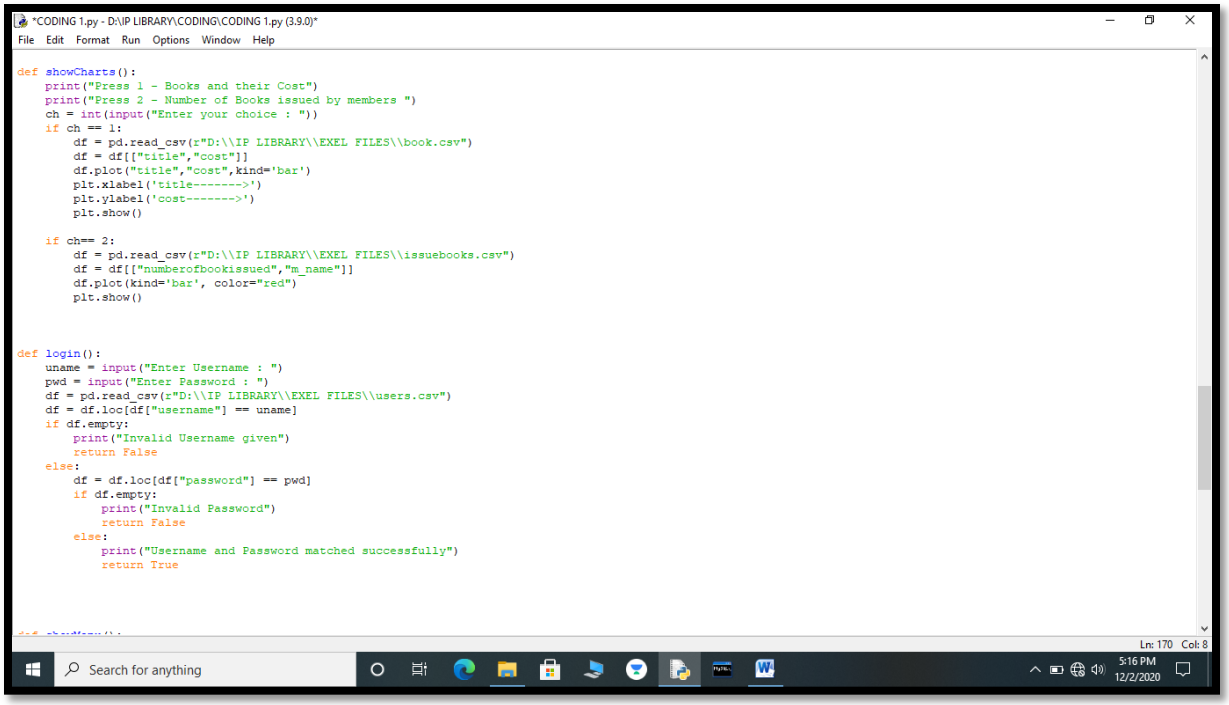
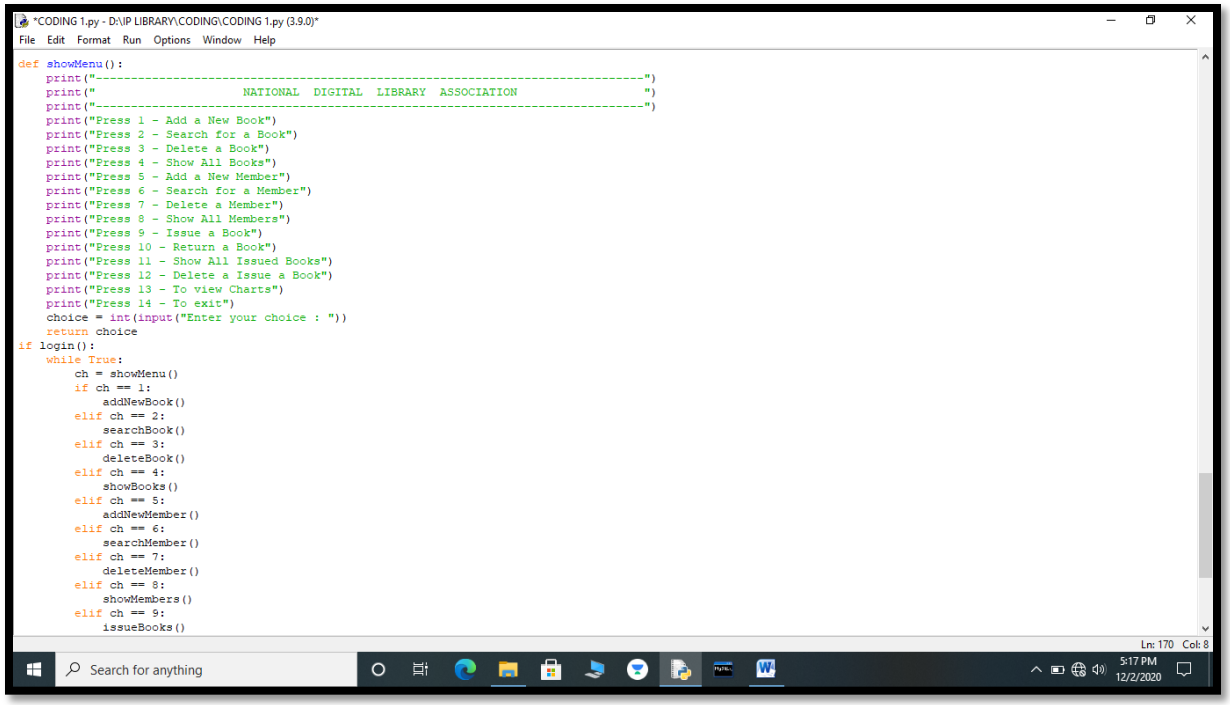
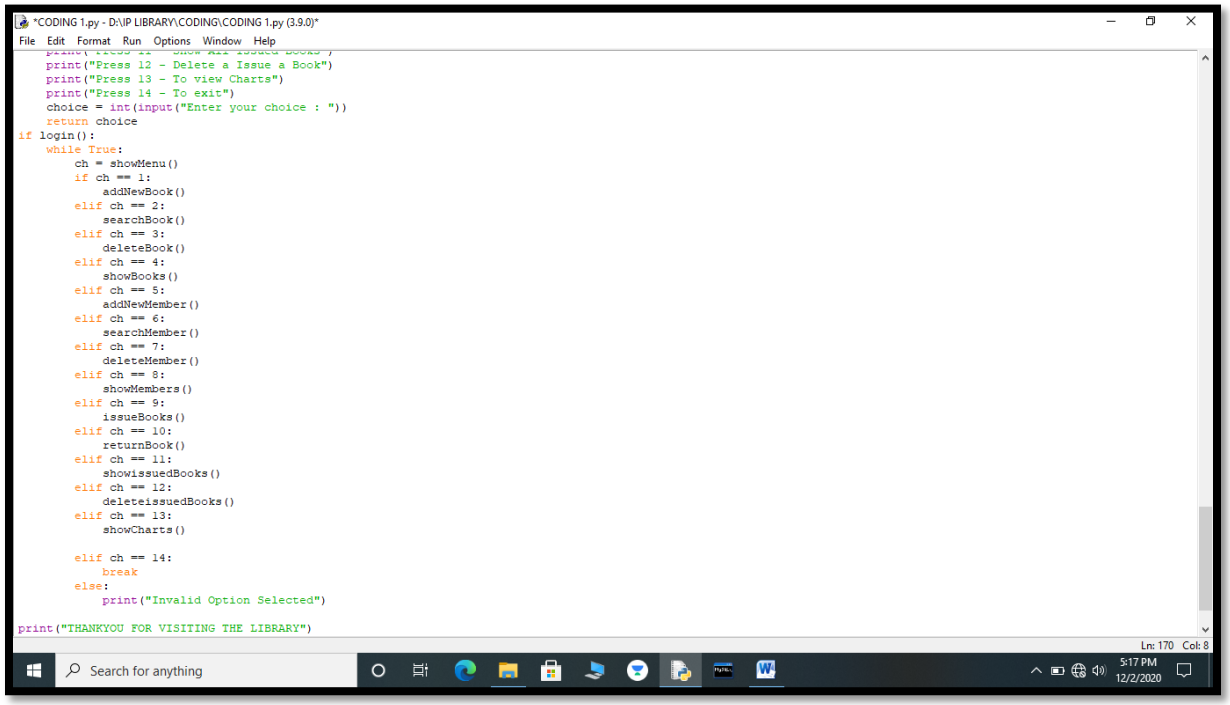
Ln: 41 Col: 4
Search for anything
5:13 PM
12/2/2020


CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)
File Edit Format Run Options Window Help
def deleteMember():
mid = float(input("Enter a member id : "))
bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv")
bdf=bdf.drop(bdf[bdf["mid"]== mid].index)
bdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv", index= False)
print("Member Deleted Successfully")
print(bdf)
def showMembers():
bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv")
print(bdf)
def issueBooks():
book_name = input("Enter book name :")
bdf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv")
bdf = bdf.loc[bdf["title"] == book_name]
if bdf.empty:
print("No Book Found in the Library")
return
m_name = input("Enter member name : ")
mdf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\member.csv")
mdf = mdf.loc[mdf["m_name"] == m_name]
if mdf.empty:
print("No such Member Found")
return
dateofissue = int(input("Enter date of issue : "))
numberofbookissued = int(input("Enter number of book issued :"))
bdf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv")
n = bdf["book_name"].count()
bdf.at[n] = [book_name,m_name,date.today(),numberofbookissued,""]
bdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv", index = False)
print("Book issued successfully")
print(bdf)
Ln: 95 Col: 0
Search for anything
5:14 PM
12/2/2020


CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)
File Edit Format Run Options Window Help
def returnBook():
m_name=input("Enter a member name : ")
book_name = input("Enter book name : ")
idf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv")
idf = idf.loc[idf["book_name"] == book_name]
if idf.empty:
print("The book is not issued in records")
else:
idf = idf.loc[idf["m_name"] == m_name]
if idf.empty:
print("The book is not issued to the member")
else:
print("Book can be returned")
ans = input("Are you sure you want to return the book : ")
if ans.lower() == "yes":
idf = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv")
idf = idf.drop(idf[idf["book_name"] == book_name].index)
idf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv", index=False)
print("Book Returned Successfully")
else:
print("Return operation cancelled")
def showissuedBooks():
idf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv")
print(idf)
def deleteissuedBooks():
book_name = input("Enter a book name : ")
bdf=pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv")
bdf=bdf.drop(bdf[bdf["book_name"]== book_name].index)
bdf.to_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv", index= False)
print("Deleted Issuied Book Successfully")
print(bdf)
def showCharts():
Ln: 148 Col: 4
Search for anything
5:15 PM
12/2/2020

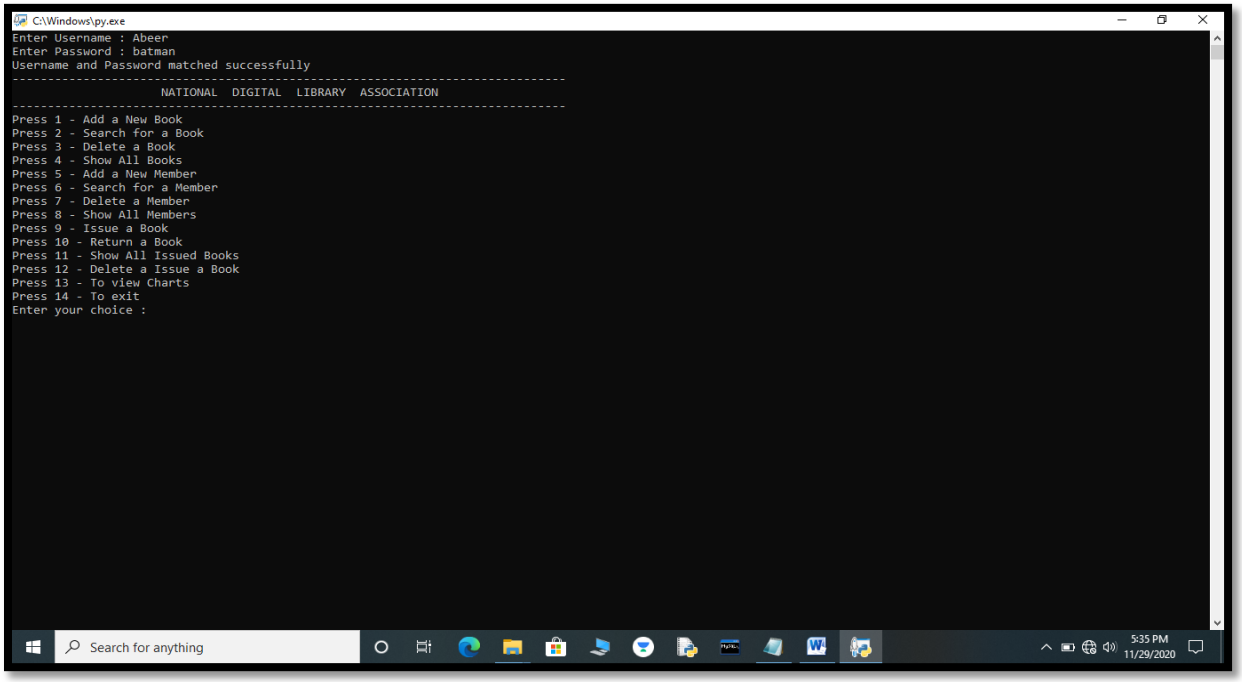

CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)
File Edit Format Run Options Window Help
def showCharts():
print("Press 1 - Books and their Cost")
print("Press 2 - Number of Books issued by members ")
ch = int(input("Enter your choice : "))
if ch == 1:
df = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\book.csv")
df = df[["title","cost"]]
df.plot("title","cost",kind='bar')
plt.xlabel('title------->')
plt.ylabel('cost------->')
plt.show()
if ch== 2:
df = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\issuebooks.csv")
df = df[["numberofbookissued","m_name"]]
df.plot(kind='bar', color="red")
plt.show()
def login():
uname = input("Enter Username : ")
pwd = input("Enter Password : ")
df = pd.read_csv(r"D:\\IP LIBRARY\\EXEL FILES\\users.csv")
df = df.loc[df["username"] == uname]
if df.empty:
print("Invalid Username given")
return False
else:
df = df.loc[df["password"] == pwd]
if df.empty:
print("Invalid Password")
return False
else:
print("Username and Password matched successfully")
return True
Ln: 170 Col: 8
Search for anything
5:16 PM
12/2/2020


CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)
File Edit Format Run Options Window Help
def showMenu():
print("--")
print(" NATIONAL DIGITAL LIBRARY ASSOCIATION ")
print("--")
print("Press 1 - Add a New Book")
print("Press 2 - Search for a Book")
print("Press 3 - Delete a Book")
print("Press 4 - Show All Books")
print("Press 5 - Add a New Member")
print("Press 6 - Search for a Member")
print("Press 7 - Delete a Member")
print("Press 8 - Show All Members")
print("Press 9 - Issue a Book")
print("Press 10 - Return a Book")
print("Press 11 - Show All Issued Books")
print("Press 12 - Delete a Issue a Book")
print("Press 13 - To view Charts")
print("Press 14 - To exit")
choice = int(input("Enter your choice : "))
return choice
if login():
while True:
ch = showMenu()
if ch == 1:
addNewBook()
elif ch == 2:
searchBook()
elif ch == 3:
deleteBook()
elif ch == 4:
showBooks()
elif ch == 5:
addNewMember()
elif ch == 6:
searchMember()
elif ch == 7:
deleteMember()
elif ch == 8:
showMembers()
elif ch == 9:
issueBooks()
Ln: 170 Col: 8
Search for anything
5:17 PM
12/2/2020


CODING 1.py - D:\IP LIBRARY\CODING\CODING 1.py (3.9.0)
File Edit Format Run Options Window Help
print("Press 12 - Delete a Issue a Book")
print("Press 13 - To view Charts")
print("Press 14 - To exit")
choice = int(input("Enter your choice : "))
return choice
if login():
while True:
ch = showMenu()
if ch == 1:
addNewBook()
elif ch == 2:
searchBook()
elif ch == 3:
deleteBook()
elif ch == 4:
showBooks()
elif ch == 5:
addNewMember()
elif ch == 6:
searchMember()
elif ch == 7:
deleteMember()
elif ch == 8:
showMembers()
elif ch == 9:
issueBooks()
elif ch == 10:
returnBook()
elif ch == 11:
showissuedBooks()
elif ch == 12:
deleteissuedBooks()
elif ch == 13:
showCharts()
elif ch == 14:
break
else:
print("Invalid Option Selected")
print("THANKYOU FOR VISITING THE LIBRARY")
Ln: 170 Col: 8
Search for anything
5:17 PM
12/2/2020

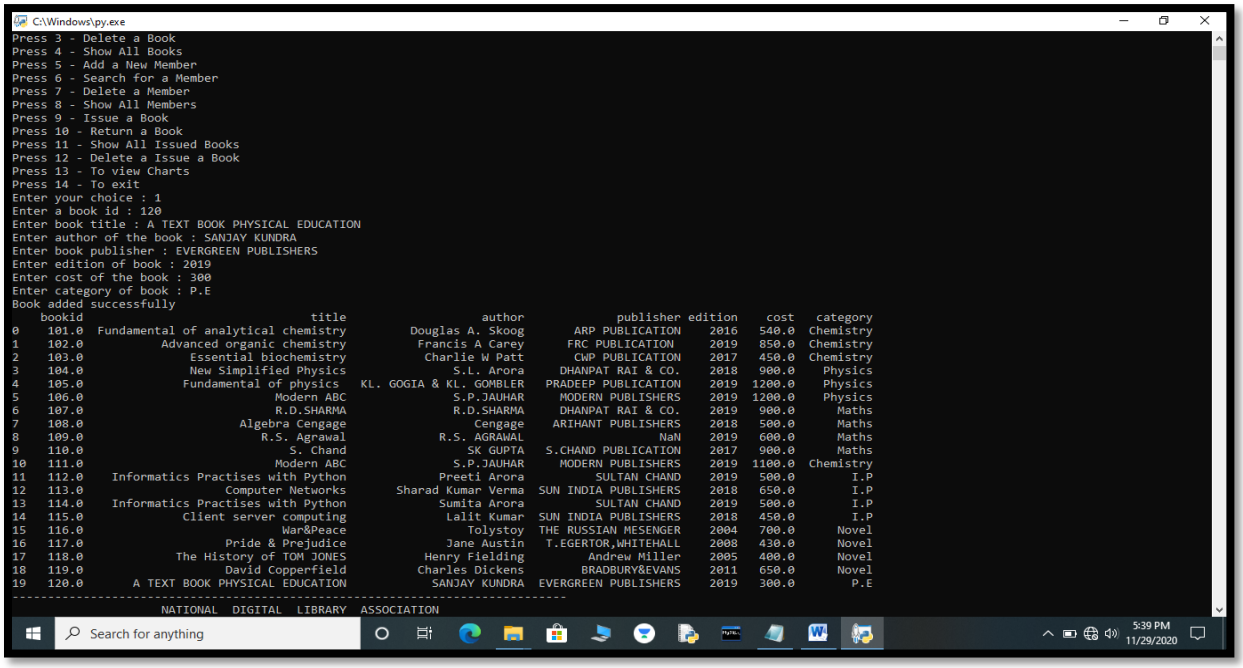
OUTPUT:

TO GET OUTPUT : PRESS F5



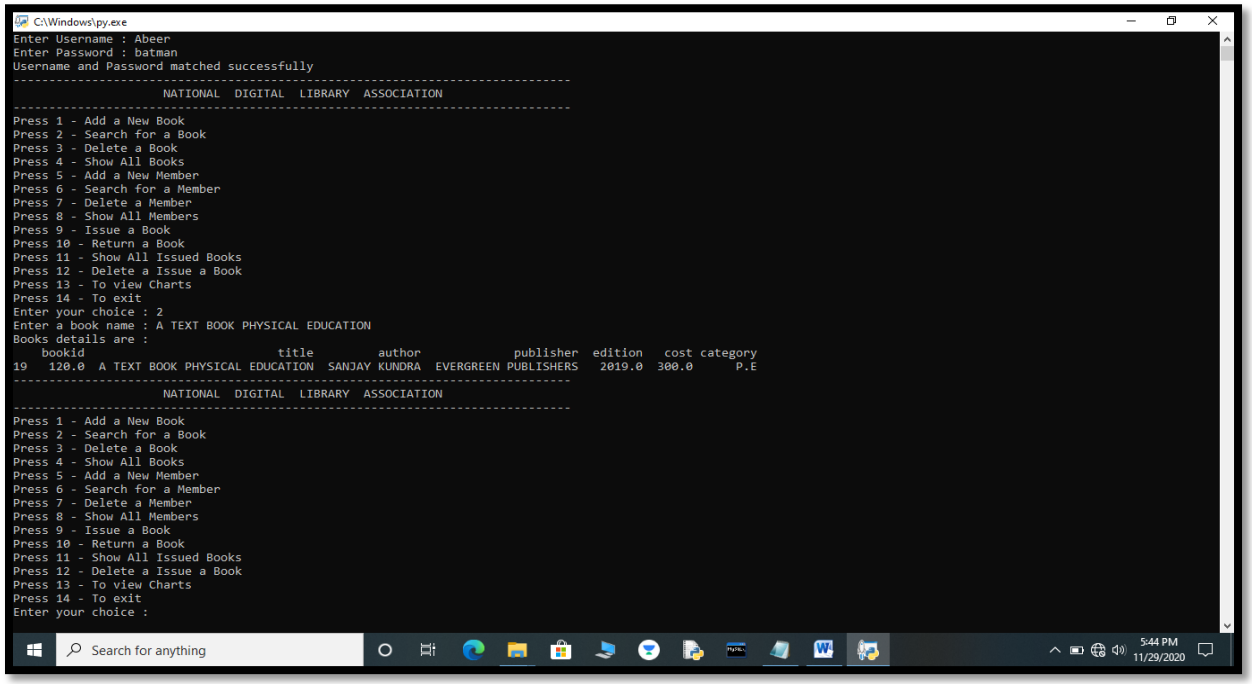
- ***TO ADD NEW BOOK DETAILS IN A CSV :***

  ENTER BOOK DETAILS WHICH USER WANT TO PUT IN CSV FILE



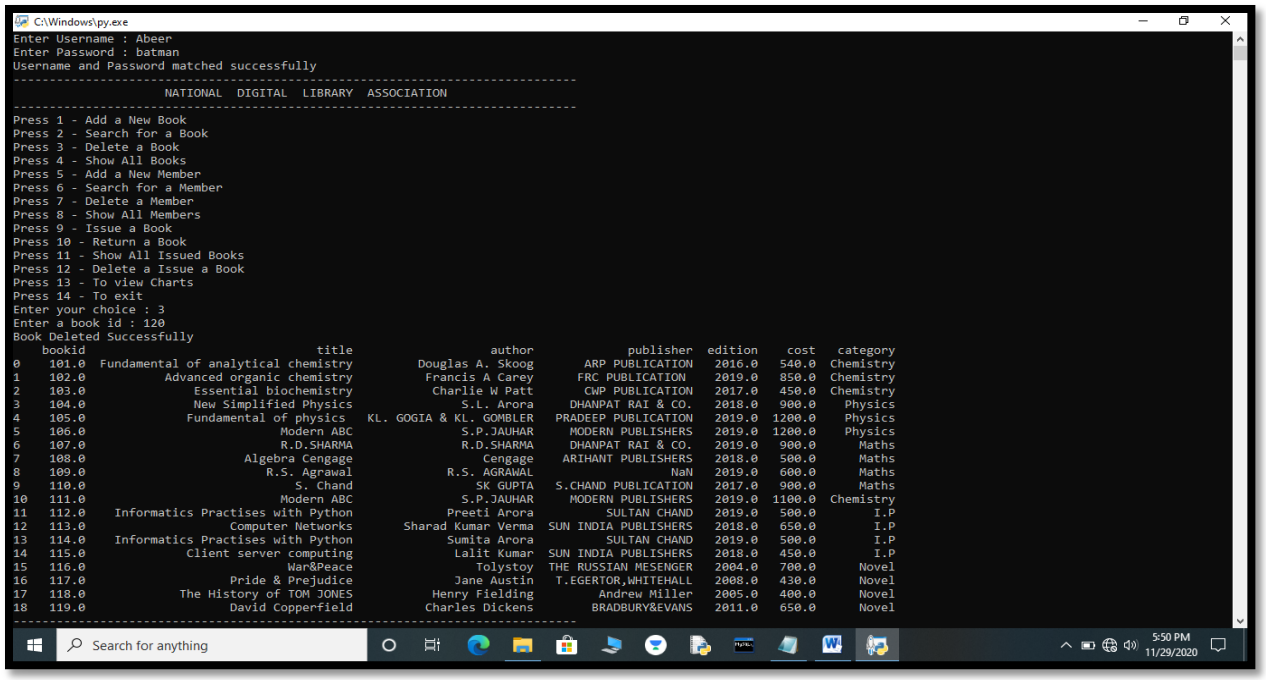
- ***TO SEARCH FOR A BOOK :***

  ENTER NAME OF BOOK WHICH USER WANT TO SEARCH

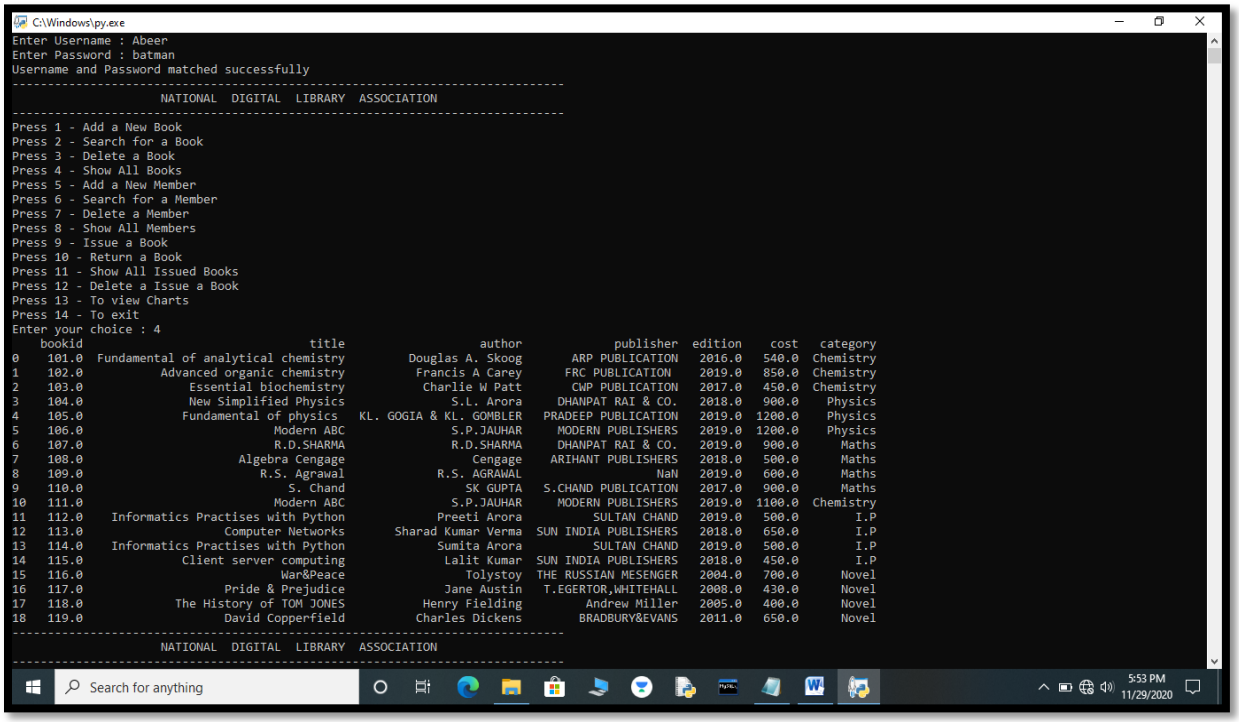


- ***TO DELETE A BOOK:***

  ENTER BOOK DETAILS TO DELETE A BOOK FROM CSV FILE

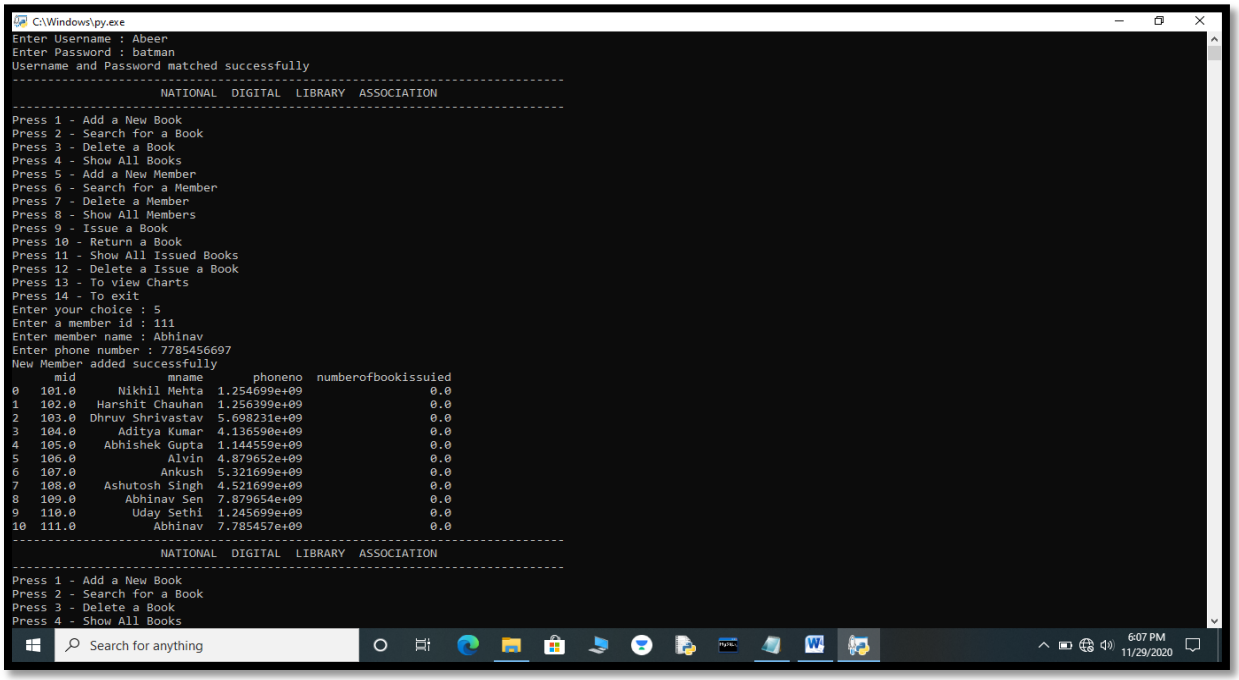


- ***TO SHOW ALL BOOKS PRESENT IN THE CSV FILE:***



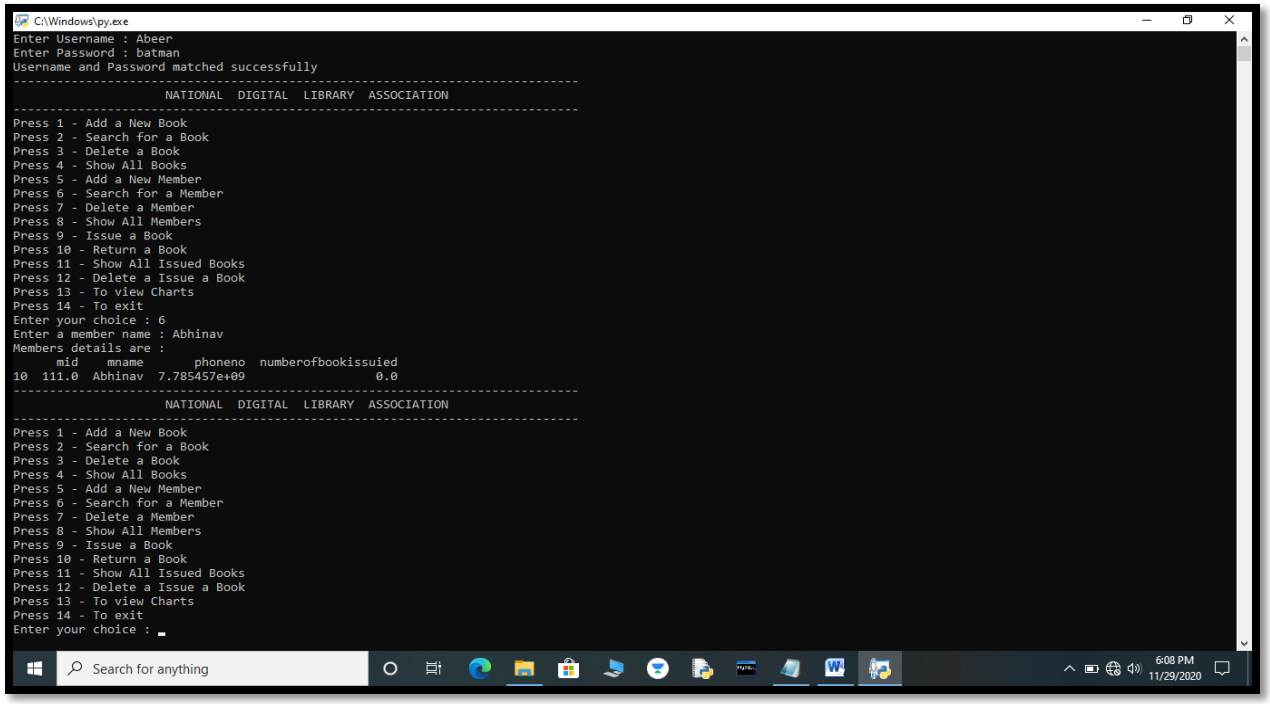
- ***TO ADD A NEW MEMBER IN A LIBRARY:***

  ENTER MEMBER DETAILS WHICH USER WANT TO PUT IN CSV FILE



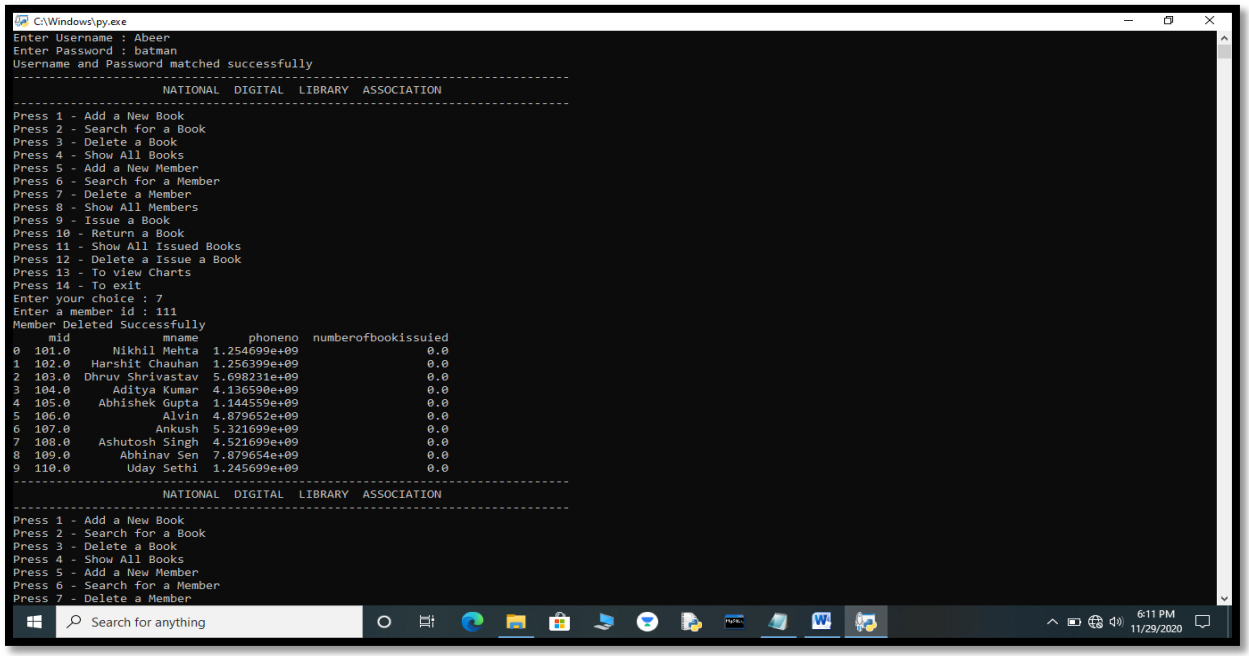
- ***TO SEARCH FOR A MEMBER:***

  ENTER MEMBER DETAILS WHOM USER WANT TO SEARCH

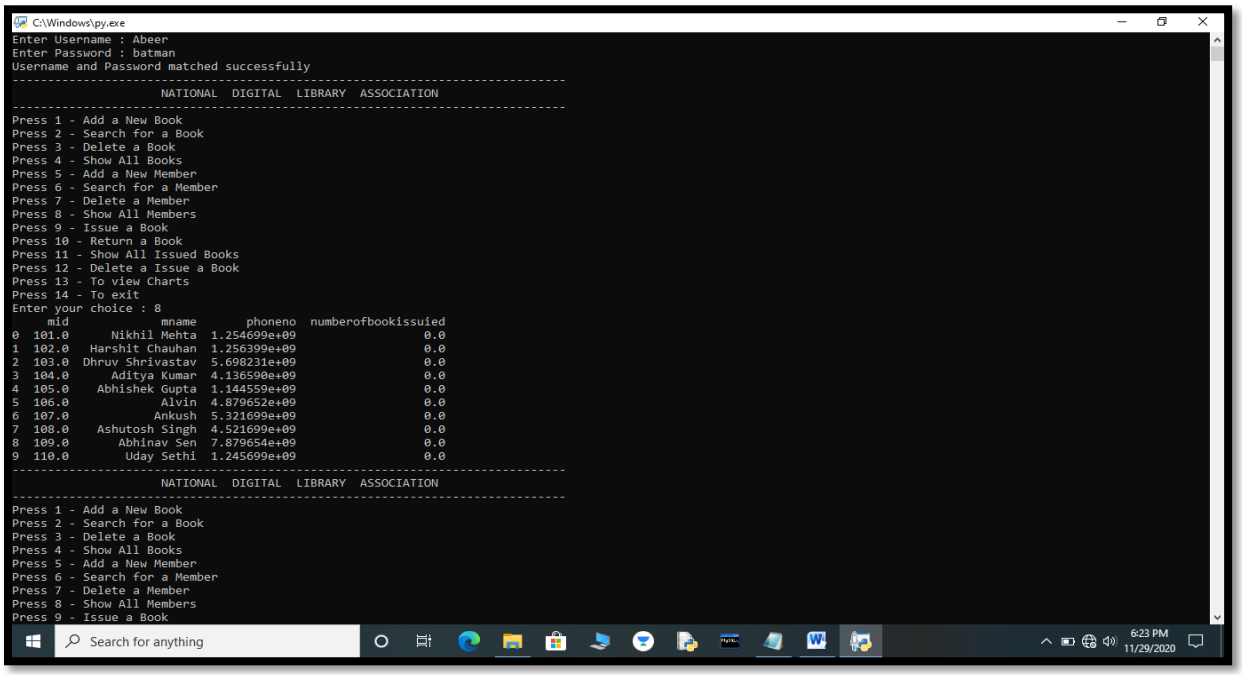


- ***TO DELETE A MEMBER :***

  Enter details of member which user want delete

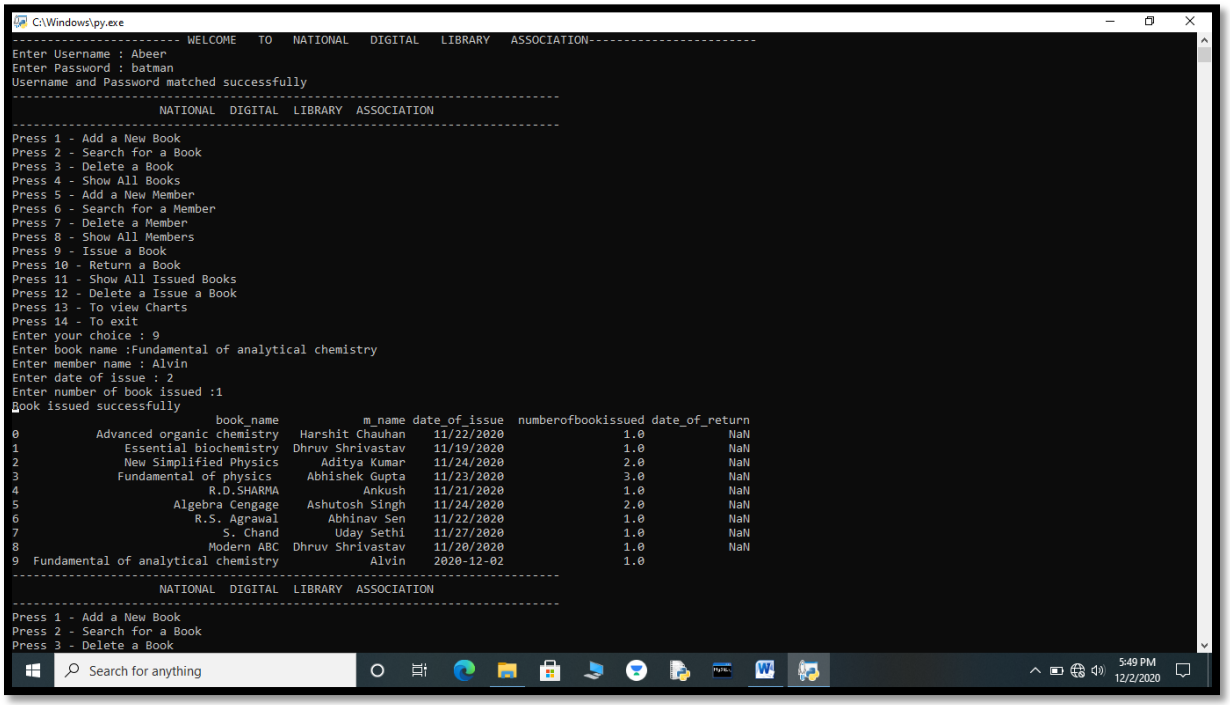


- ***TO SHOW ALL MEMBERS IN LIBRARY:***

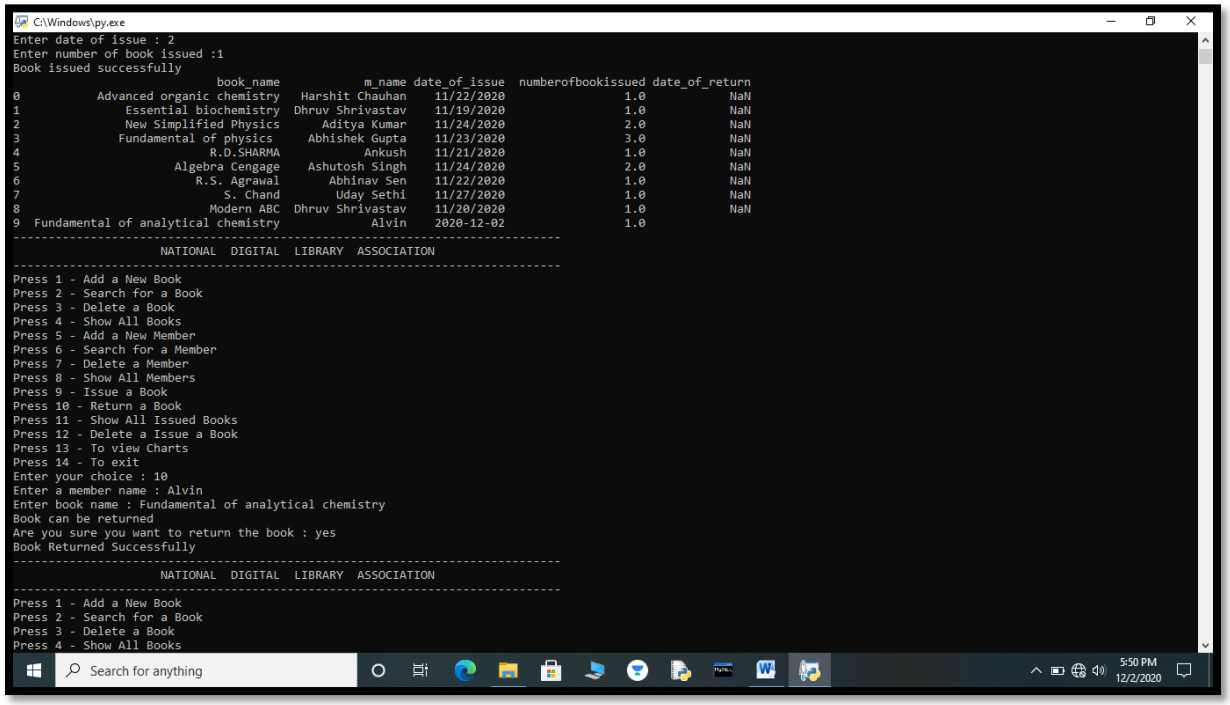


- ***FOR ISSUE A BOOK:***

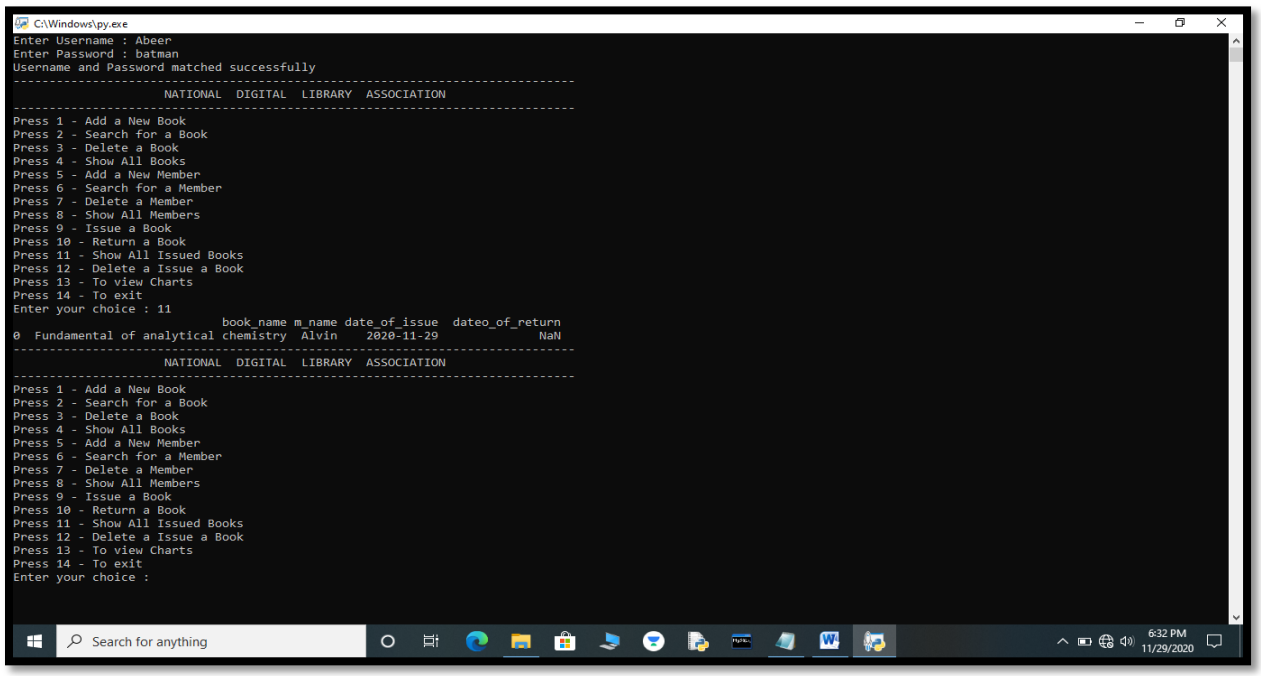
  Enter details to issue a book



- ***FOR RETURN A BOOK:***

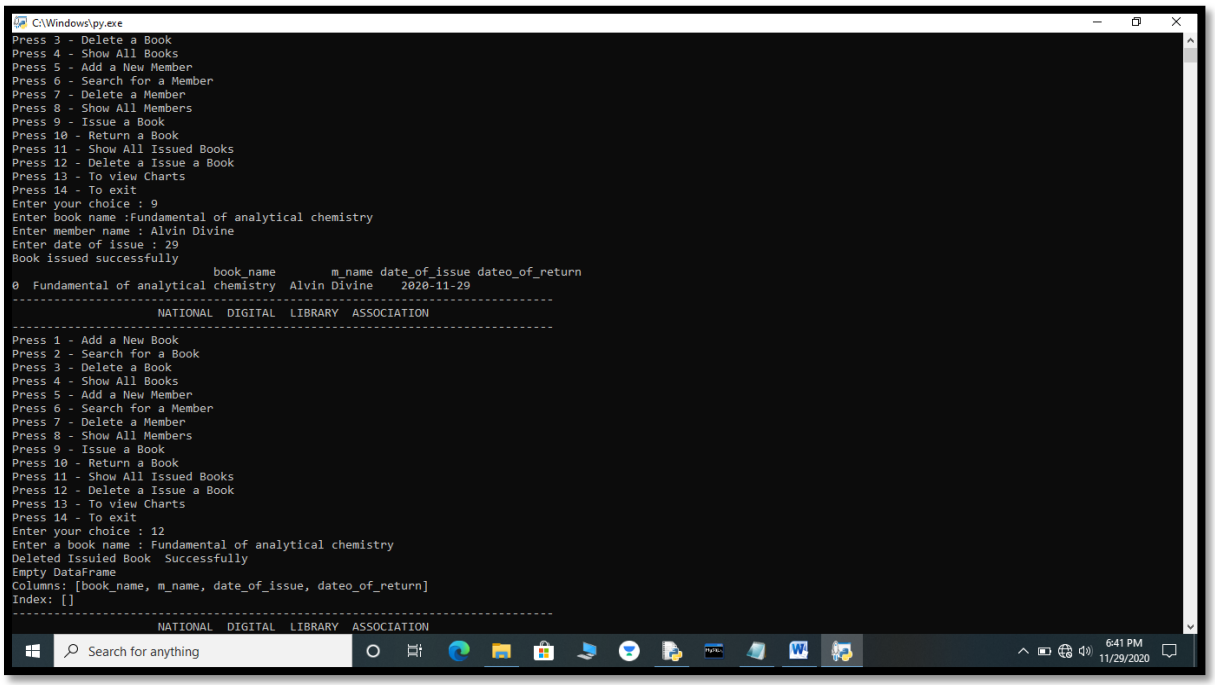


- ***TO SHOW ALL ISSUED BOOKS:***



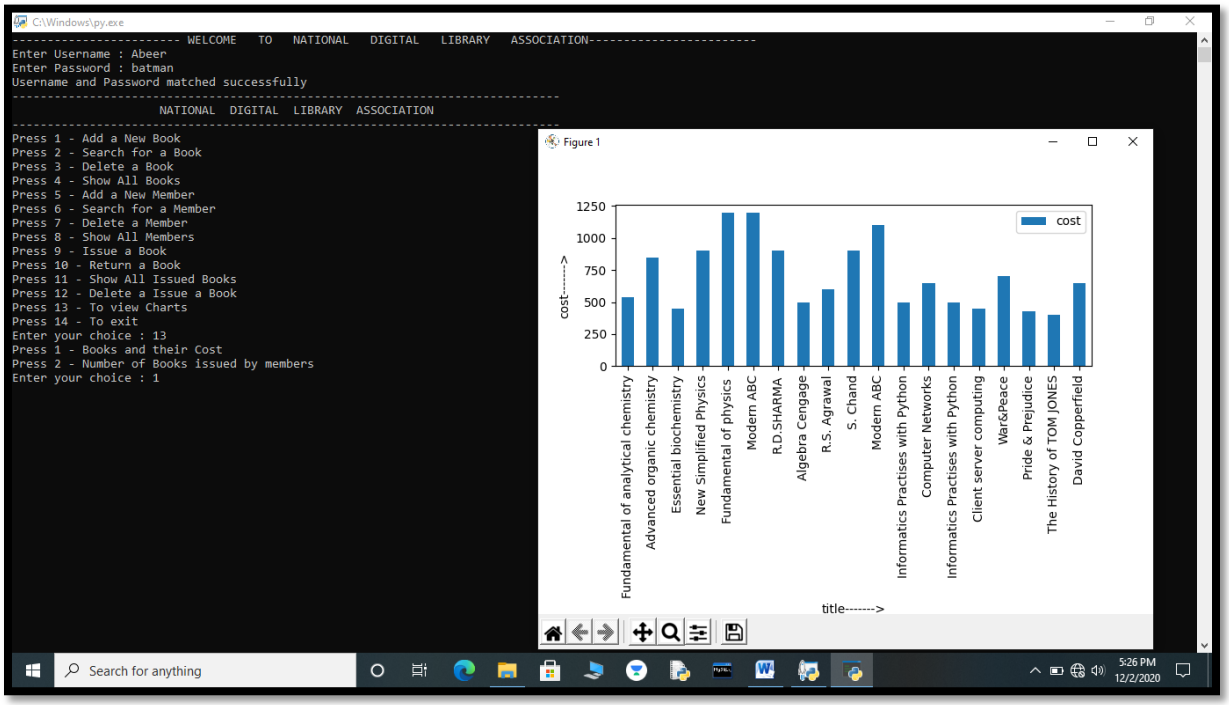
- ***TO DELETE A ISSUE A BOOK:***

  Enter details to delete a issued books

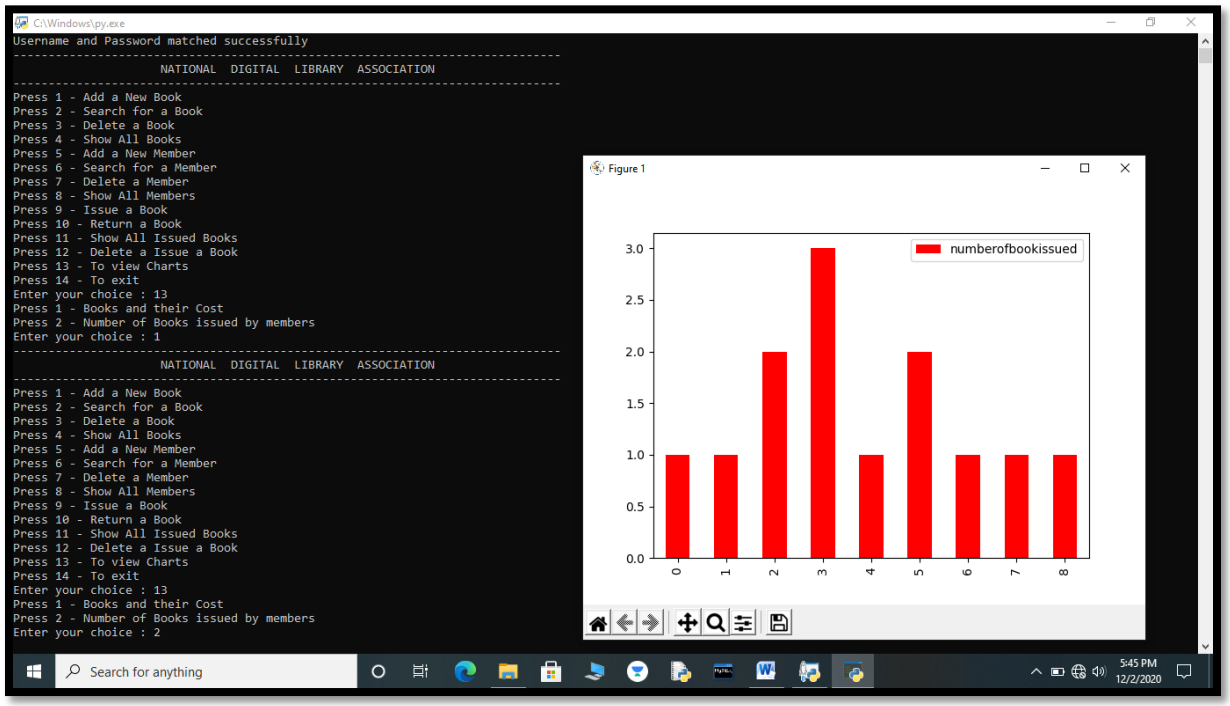


- ***TO VIEW CHARTS/GRAPHS :***

  ✓ *Graph between no. of books and their costs*



✓ Graph for number of issued by members



- ***HARDWARE AND SOFTWARE REQUIREMENTS:***

➢ ***SOFTWARE REQIREMENT***:

I.OPERATING SYSTEM	*:*	*WINDOWS 7 AND ABOVE*
II. PROCESSOR	*:*	*PENTIUM(ANY) OR AMD ATHALON(3800+- 4200+ DUAL CORE)*
III. MOTHERBOARD	*:*	*1.845 OR 915,995 FOR PENTIUM 0R MSI K9MM-V VIA K8M800+8237R PLUS CHIPSET FOR AMD ATHALON*
IV. RAM	*:*	*4GB+*

V. Hard disk	*:*	*500GB*
VIII. MONITOR	*:*	*14.1 or 15 -17 inch*
IX. Key board and mouse	*:*	*YES*
X. Printer	*:*	*(if print is required – [Hard copy])*

- ***SOFTWARE REQUIREMENTS:***

- *Windows OS*
- *Python*

- ***BIBLIOGRAPHY:***

✓ *INFORMTICS PRACTISES WITH PYTHON,*

By Preeti Arora

✓ *WEBSITE: https://www.wikipedia.org*