In [ ]:
```
import pickle
import os
import pathlib
class Account :
    accNo = 0
    name = ''
    deposit=0
    type = ''

    def createAccount(self):
        self.accNo= int(input("Enter the account no : "))
        self.name = input("Enter the account holder name : ")
        self.type = input("Ente the type of account [C/S] : ")
        self.deposit = int(input("Enter The Initial amount(>=500 for Saving an
d >=1000 for current"))
        print("\n\n\nAccount Created")

    def showAccount(self):
        print("Account Number : ",self.accNo)
        print("Account Holder Name : ", self.name)
        print("Type of Account",self.type)
        print("Balance : ",self.deposit)

    def modifyAccount(self):
        print("Account Number : ",self.accNo)
        self.name = input("Modify Account Holder Name :")
        self.type = input("Modify type of Account :")
        self.deposit = int(input("Modify Balance :"))

    def depositAmount(self,amount):
        self.deposit += amount

    def withdrawAmount(self,amount):
        self.deposit -= amount

    def report(self):
        print(self.accNo, " ",self.name ," ",self.type," ", self.deposit)

    def getAccountNo(self):
        return self.accNo
    def getAcccountHolderName(self):
        return self.name
    def getAccountType(self):
        return self.type
    def getDeposit(self):
        return self.deposit




def writeAccount():
    account = Account()
    account.createAccount()
    writeAccountsFile(account)
```

```
def displayAll():
    file = pathlib.Path("accounts.data")
    if file.exists ():
        infile = open('accounts.data','rb')
        mylist = pickle.load(infile)
        for item in mylist :
            print(item.accNo," ", item.name, " ",item.type, " ",item.deposit )
        infile.close()
    else :
        print("No records to display")


def displaySp(num):
    file = pathlib.Path("accounts.data")
    if file.exists ():
        infile = open('accounts.data','rb')
        mylist = pickle.load(infile)
        infile.close()
        found = False
        for item in mylist :
            if item.accNo == num :
                print("Your account Balance is = ",item.deposit)
                found = True
    else :
        print("No records to Search")
    if not found :
        print("No existing record with this number")

def depositAndWithdraw(num1,num2):
    file = pathlib.Path("accounts.data")
    if file.exists ():
        infile = open('accounts.data','rb')
        mylist = pickle.load(infile)
        infile.close()
        os.remove('accounts.data')
        for item in mylist :
            if item.accNo == num1 :
                if num2 == 1 :
                    amount = int(input("Enter the amount to deposit : "))
                    item.deposit += amount
                    print("Your account is updted")
                elif num2 == 2 :
                    amount = int(input("Enter the amount to withdraw : "))
                    if amount <= item.deposit :
                        item.deposit -=amount
                    else :
                        print("You cannot withdraw larger amount")

    else :
        print("No records to Search")
    outfile = open('newaccounts.data','wb')
    pickle.dump(mylist, outfile)
    outfile.close()
    os.rename('newaccounts.data', 'accounts.data')
```

```
def deleteAccount(num):
    file = pathlib.Path("accounts.data")
    if file.exists ():
        infile = open('accounts.data','rb')
        oldlist = pickle.load(infile)
        infile.close()
        newlist = []
        for item in oldlist :
            if item.accNo != num :
                newlist.append(item)
        os.remove('accounts.data')
        outfile = open('newaccounts.data','wb')
        pickle.dump(newlist, outfile)
        outfile.close()
        os.rename('newaccounts.data', 'accounts.data')
def modifyAccount(num):
    file = pathlib.Path("accounts.data")
    if file.exists ():
        infile = open('accounts.data','rb')
        oldlist = pickle.load(infile)
        infile.close()
        os.remove('accounts.data')
        for item in oldlist :
            if item.accNo == num :
                item.name = input("Enter the account holder name : ")
                item.type = input("Enter the account Type : ")
                item.deposit = int(input("Enter the Amount : "))

        outfile = open('newaccounts.data','wb')
        pickle.dump(oldlist, outfile)
        outfile.close()
        os.rename('newaccounts.data', 'accounts.data')


def writeAccountsFile(account) :

    file = pathlib.Path("accounts.data")
    if file.exists ():
        infile = open('accounts.data','rb')
        oldlist = pickle.load(infile)
        oldlist.append(account)
        infile.close()
        os.remove('accounts.data')
    else :
        oldlist = [account]
    outfile = open('newaccounts.data','wb')
    pickle.dump(oldlist, outfile)
    outfile.close()
    os.rename('newaccounts.data', 'accounts.data')


# start of the program
ch=''
num=0


while ch != 8:
```

```
print("\tMAIN MENU")
print("\t1. NEW ACCOUNT")
print("\t2. DEPOSIT AMOUNT")
print("\t3. WITHDRAW AMOUNT")
print("\t4. BALANCE ENQUIRY")
print("\t5. ALL ACCOUNT HOLDER LIST")
print("\t6. CLOSE AN ACCOUNT")
print("\t7. MODIFY AN ACCOUNT")
print("\t8. EXIT")

ch = input("Enter your choice : ")


if ch == '1':
    writeAccount()
elif ch =='2':
    num = int(input("\tEnter The account No. : "))
    depositAndWithdraw(num, 1)
elif ch == '3':
    num = int(input("\tEnter The account No. : "))
    depositAndWithdraw(num, 2)
elif ch == '4':
    num = int(input("\tEnter The account No. : "))
    displaySp(num)
elif ch == '5':
    displayAll();
elif ch == '6':
    num =int(input("\tEnter The account No. : "))
    deleteAccount(num)
elif ch == '7':
    num = int(input("\tEnter The account No. : "))
    modifyAccount(num)
elif ch == '8':
    print("\tThanks for using bank managemnt system")
    break
else :
    print("Invalid choice")
```

```
        MAIN MENU
        1. NEW ACCOUNT
        2. DEPOSIT AMOUNT
        3. WITHDRAW AMOUNT
        4. BALANCE ENQUIRY
        5. ALL ACCOUNT HOLDER LIST
        6. CLOSE AN ACCOUNT
        7. MODIFY AN ACCOUNT
        8. EXIT
Enter your choice : 1
Enter the account no : 555056
Enter the account holder name : A Santosh Kumar
Ente the type of account [C/S] : S
Enter The Initial amount(>=500 for Saving and >=1000 for current4500



Account Created
        MAIN MENU
        1. NEW ACCOUNT
        2. DEPOSIT AMOUNT
        3. WITHDRAW AMOUNT
        4. BALANCE ENQUIRY
        5. ALL ACCOUNT HOLDER LIST
        6. CLOSE AN ACCOUNT
        7. MODIFY AN ACCOUNT
        8. EXIT
Enter your choice : 5
5678   A.Santosh Kumar   S   800
78601   A.Santosh Kumar   S   2500
555056   A Santosh Kumar   S   4500
        MAIN MENU
        1. NEW ACCOUNT
        2. DEPOSIT AMOUNT
        3. WITHDRAW AMOUNT
        4. BALANCE ENQUIRY
        5. ALL ACCOUNT HOLDER LIST
        6. CLOSE AN ACCOUNT
        7. MODIFY AN ACCOUNT
        8. EXIT
Enter your choice : 7
        Enter The account No. : 78601
Enter the account holder name : A.Girish Kumar
Enter the account Type : S
Enter the Amount : 3400
        MAIN MENU
        1. NEW ACCOUNT
        2. DEPOSIT AMOUNT
        3. WITHDRAW AMOUNT
        4. BALANCE ENQUIRY
        5. ALL ACCOUNT HOLDER LIST
        6. CLOSE AN ACCOUNT
        7. MODIFY AN ACCOUNT
        8. EXIT
Enter your choice : 5
5678   A.Santosh Kumar   S   800
78601   A.Girish Kumar   S   3400
```

```
555056   A Santosh Kumar   S   4500
        MAIN MENU
        1. NEW ACCOUNT
        2. DEPOSIT AMOUNT
        3. WITHDRAW AMOUNT
        4. BALANCE ENQUIRY
        5. ALL ACCOUNT HOLDER LIST
        6. CLOSE AN ACCOUNT
        7. MODIFY AN ACCOUNT
        8. EXIT
```

In [ ]: