

```
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 and >=1000 for current"))
        print("\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):
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        return self.type
    def getDeposit(self):
        return self.deposit

def intro():
    print("\t\t\t\t*****")
    print("\t\t\t\tBANK MANAGEMENT SYSTEM")
    print("\t\t\t\t*****")

    print("\t\t\t\tBrought To You By:")
    print("\t\t\t\tAyyappa@Nani.in")
    input()

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
```

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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')
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        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
```

```
intro()

while ch != 8:
    #system("cls");
    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")
    print("\tSelect Your Option (1-8) ")
    ch = input()
    #system("cls");

    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")

    ch = input("Enter your choice : ")
```

```
*****  
BANK MANAGEMENT SYSTEM  
*****  
Brought To You By:  
Ayyappa@Nani.in
```

1

```
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  
Select Your Option (1-8)
```

1

```
Enter the account no : 213110035  
Enter the account holder name : Ayyappa Kirla  
Enter the type of account [C/S] : S  
Enter The Initial amount(>=500 for Saving and >=1000 for current)12400
```

Account Created

Enter your choice : 2

```
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  
Select Your Option (1-8)
```

2

```
Enter The account No. : 213110035  
Enter the amount to deposit : 5000  
Your account is updted  
Enter your choice : 7
```

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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
Select Your Option (1-8)
3
    Enter The account No. : 1000
Enter your choice : 7
    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
    Select Your Option (1-8)
3
    Enter The account No. : 213110035
Enter the amount to withdraw : 1000
Enter your choice : 4
    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
    Select Your Option (1-8)
4
    Enter The account No. : 213110035
Your account Balance is = 16400
Enter your choice : 1
    MAIN MENU
    1. NEW ACCOUNT
    2. DEPOSIT AMOUNT
    3. WITHDRAW AMOUNT
    4. BALANCE ENQUIRY
    5. ALL ACCOUNT HOLDER LIST
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```
6. CLOSE AN ACCOUNT
7. MODIFY AN ACCOUNT
8. EXIT
Select Your Option (1-8)
```

```
1
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```
Enter the account no : 213010009
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```
Enter the account holder name : Ushaswini T
```

```
Enter the type of account [C/S] : S
```

```
Enter The Initial amount(>=500 for Saving and >=1000 for current)12400
```

```
Account Created
```

```
Enter your choice : 5
```

```
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
Select Your Option (1-8)
```

```
5
```

```
213110035  Ayyappa Kirla  S   16400
```

```
213010009  Ushaswini T   S   12400
```

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In [ ]:
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