```
import pickle
import os
import pathlib


class Account:
  accntno = 0
  name = ''
  deposit = 0
  acctype = ''

  def createAccount(self):
    self.accntno = int(input('Enter the account number:'))
    self.name = input('Enter account holder name:')
    self.acctype = input('Enter the account type[S/C]:')
    self.deposit = int(input('Enter the deposit amount(>=500 for savings and >=1000 for current):'))
    print('\n\nAccount created successfully!!!')

  def showAccount(self):
    print('Account number:',self.accntno)
    print('Account holder name:',self.name)
    print('Type of account:',self.acctype)
    print('Balance:',self.deposit)

  def modifyAccount(self):
    print('Account number:',self.accntno)
    self.name = input('Modify account holder name:')
    self.acctype = 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.accntno,' ',self.name,' ',self.acctype,' ',self.deposit)

  def getAccountNo(self):
    return self.accntno

  def getAccountHolderName(self):
    return self.name

  def getAccountType(self):
    return self.acctype

  def getDeposit(self):
    return self.deposit


def intro():
  print('\t\t\t\t-------------')
  print('Bank Management System')
  print('\t\t\t\t-------------')
  input('Press enter to continue!')

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.accntno,' ',item.name,' ',item.acctype,' ',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()
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        infile.close()
        found = False
        for item in mylist:
          if item.accntno == num:
            print('Your account balance is:',item.deposit)
      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.accntno == num1:
            if num2==1:
              amount = int(input('Enter the amount to deposit:'))
              item.deposit += amount
              print('Your account is updated!')
            elif num2==2:
              amount = int(input('Enter the amount to withdraw:'))
              if amount <= item.deposit:
                item.deposit -= amount
                print('Your account is updated!')
              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.accntno!=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')


    ch = ''
    num = 0
    intro()

    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")
      print("\tSelect Your Option (1-8) ")

      ch = input()
      if(ch=='1'):
        writeAccount()
      elif(ch=='2'):
        num = int(input('\tEnter the account number:'))
        depositAndWithdraw(num,1)
      elif(ch=='3'):
        num = int(input('\tEnter the account number:'))
        depositAndWithdraw(num,2)
      elif(ch=='4'):
        num = int(input('\tEnter the account number:'))
        displaySp(num)
      elif(ch=='5'):
        displayAll()
      elif(ch=='6'):
        num = int(input('\tEnter the account number:'))
        deleteAccount(num)
      elif(ch=='7'):
        num = int(input('\tEnter the account number:'))
        modifyAccount(num)
      elif(ch=='8'):
        print('Thanks for using Bank Management System')
        break
      else:
        print('Invalid Choice')
      ch = input('Enter your choice:')
```

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                                -------------
Bank Management System
                                -------------
Press enter to continue!
        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 number:456
Enter account holder name:Abhilasha
Enter the account type[S/C]:S
Enter the deposit amount(>=500 for savings and >=1000 for current):1000


Account created successfully!!!
Enter your choice:3
        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 number:456
Enter the amount to withdraw:30
Your account is updated!
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 number:456
Your account balance is: 970
No existing record with this number !!
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
456   Abhilasha   S   970
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)
7
        Enter the account number:456
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-3-1b4345d67834> in <cell line: 5>()
     34   elif(ch=='7'):
     35     num = int(input('\tEnter the account number:'))
---> 36     modifyAccount(num)
     37   elif(ch=='8'):
     38     print('Thanks for using Bank Management System')
```