**BANKING MANAGEMENT**

**Code**

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\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 intro():

print("\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("\t\t\t\tBANK MANAGEMENT SYSTEM")

print("\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

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

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

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 : ")

**OUTPUT**









