

Bank Management System

#Python program for Bank Management System

d={} #Dictionary to store created accounts

class Bank:

 ano=1001112300

 def __init__(self,n,t,i,c):

 self.aname=n

 self.atype=t

 self.acno= self.ano+c

 self.abalance=i

 print("\nAccount Created Successfully!!!")

 self.account()

 def account(self):

 l=[]

 print('Account Details')

 print('Name of the Account holder: %s' %self.aname)

 print('Account Number: %d' %self.acno)

 print('Type of the account: %s' %self.atype)

 print('Account Balance: %.2f' %self.abalance)

 l.append(self.aname)

 l.append(self.atype)

 l.append(self.abalance)

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d[self.acno]=l

print(d)

def deposit(self):

    n=int(input('\nEnter the account number: '))

    b=int(input('Enter the amount to deposit: '))

    d[n][2]+=b

    print('Amount deposited successfully!!!')

    #print(d)

def withdraw(self):

    n=int(input('\nEnter the account number: '))

    if(d[n][2]>0):

        m=int(input('Enter the amount to withdraw: '))

        if(m> d[n][2]):

            print("Insufficient balance")

        else:

            d[n][2] -= m

            print("Remaining Account Balance :%d" %d[n][2])

        else:

            print("Insufficient balance")

def checkbalance(self):

    n=int(input('Enter account number: '))
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print('Account Holdername: %s' %d[n][0])

print('Account Balance: %.2f' %d[n][2])

#print(d)

def transfer(self):

    k=int(input('\nEnter your account number: '))

    n=int(input('Enter the beneficiary account number: '))

    m=int(input('Enter the amount to transfer: '))

    if(d[k][2]>0):

        if(m> d[k][2]):

            print("Insufficient balance")

        else:

            d[k][2]-=m

            d[n][2]+=m

            print('Amount transfered succesfully!!!')

        else:

            print("Insufficient balance")

    #print(d)

def search(self):

    n=int(input('\nEnter your account no to search: '))

    l=d.keys()

    if n in l:
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print('Account exist!')

print('Account Details')

print('Name of the Account holder: %s' %d[n][0])

print('Account Number: %d' %n)

print('Type of the account: %s' %d[n][1])

print('Account Balance: %.2f' %d[n][2])

else:

    print('Account does not exist!')
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print('Welcome to TSH Bank')

print('1. Account creation')

print('2. Deposit')

print('3. Withdraw')

print('4. Check balance')

print('5. Transfer amount')

print('6. Search a particular account detail')

print('0. Exit')

c=0

while 1:

    o=int(input('\nEnter your option: '))
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if o==1:

    n=input('Enter Your name: ')

    t=input('Enter the type of the account[Savings/Current]: ')

    i=float(input('Initial deposit [Savings: 500/- , Current: 1000/-]: '))

    c=c+1

    b=Bank(n,t,i,c)

elif o==2:

    b.deposit()

elif o==3:

    b.withdraw()

elif o==4:

    b.checkbalance()

elif o==5:

    b.transfer()

elif o==6:

    b.search()

elif o==0:

    print('Exited successfully!!!')
    break

else:

    print("Please select a valid option!!!")
```

Implementation:

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Welcome to TSH Bank
1. Account creation
2. Deposit
3. Withdraw
4. Check balance
5. Transfer amount
6. Search a particular account detail
0. Exit

Enter your option: 1
Enter Your name: Sri Harsha
Enter the type of the account[Savings/Current]: Savings
Initial deposit [Savings: 500/- , Current: 1000/-]: 500

Account Created Successfully!!!
Account Details
Name of the Account holder: Sri Harsha
Account Number: 1001112301
Type of the account: Savings
Account Balance: 500.00
{1001112301: ['Sri Harsha', 'Savings', 500.0]}

Enter your option: 1
Enter Your name: Veshnu
Enter the type of the account[Savings/Current]: Savings
Initial deposit [Savings: 500/- , Current: 1000/-]: 600

Account Created Successfully!!!
Account Details
Name of the Account holder: Veshnu
Account Number: 1001112302
Type of the account: Savings
Account Balance: 600.00

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Account Created Successfully!!!
Account Details
Name of the Account holder: Veshnu
Account Number: 1001112302
Type of the account: Savings
Account Balance: 600.00
{1001112301: ['Sri Harsha', 'Savings', 500.0], 1001112302: ['Veshnu', 'Savings', 600.0]}

Enter your option: 1
Enter Your name: Vinay
Enter the type of the account[Savings/Current]: Current
Initial deposit [Savings: 500/- , Current: 1000/-]: 1000

Account Created Successfully!!!
Account Details
Name of the Account holder: Vinay
Account Number: 1001112303
Type of the account: Current
Account Balance: 1000.00
{1001112301: ['Sri Harsha', 'Savings', 500.0], 1001112302: ['Veshnu', 'Savings', 600.0], 1001112303: ['Vinay', 'Current', 1000.0]}

Enter your option: 2

Enter the account number: 1001112301
Enter the amount to deposit: 400
Amount deposited successfully!!!

Enter your option: 4
Enter account number: 1001112301
Account Holdername: Sri Harsha
Account Balance: 900.00

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Account Balance: 900.00

Enter your option: 3

Enter the account number: 1001112303
Enter the amount to withdraw: 200
Remaining Account Balance :800

Enter your option: 4
Enter account number: 1001112303
Account Holdername: Vinay
Account Balance: 800.00

Enter your option: 5

Enter your account number: 1001112301
Enter the beneficiary account number: 1001112302
Enter the amount to transfer: 500
Amount transfered succesfully!!!

Enter your option: 4
Enter account number: 1001112301
Account Holdername: Sri Harsha
Account Balance: 400.00

Enter your option: 1001112302
Please select a valid option!!!

Enter your option: 4
Enter account number: 1001112302
Account Holdername: Veshnu
Account Balance: 1100.00

```

input

Activate Windows
Go to Settings to activate Windows.

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Please select a valid option!!!

Enter your option: 4
Enter account number: 1001112302
Account Holdername: Veshnu
Account Balance: 1100.00

Enter your option: 6

Enter your account no to search: 1001112301
Account exist!
Account Details
Name of the Account holder: Sri Harsha
Account Number: 1001112301
Type of the account: Savings
Account Balance: 400.00

Enter your option: 6

Enter your account no to search: 1001112303
Account exist!
Account Details
Name of the Account holder: Vinay
Account Number: 1001112303
Type of the account: Current
Account Balance: 800.00

Enter your option: 6

Enter your account no to search: 1001112304
Account does not exist!

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input

Activate Windows
Go to Settings to activate Windows.

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Enter your account no to search: 1001112304
Account does not exist!

Enter your option: 0
Exited successfully!!!
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--THE END--