banking-management-system

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[1]:
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class Bank:
    def __init__(self,name):
        self.name=name
        self.accounts=[]
    def add_account(self,account):
        self.accounts.append(account)

class Account:
    def __init__(self,number,owner,balance):
        self.number=number
        self.owner=owner
        self.balance=balance
        self.transactions=[]
    def deposit(self,amount):
        self.balance+=amount
        self.transactions.append(Transaction(amount,"Deposit"))
    def withdraw(self,amount):
        if self.balance>=amount:
            self.balance-=amount
            self.transactions.append(Transaction(amount,"Withdrawal"))
        else:
            print("Insufficient funds")

class Transaction:
    def __init__(self,amount,type):
        self.amount=amount
        self.type=type


def main():
    bank_name=input("Enter bank name:")
    bank=Bank(bank_name)
    print("Bank",bank_name,"created successfully")
    while True:
        print("1.Create Account")
        print("2.Deposit")
        print("3.Withdraw")
```

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        print("4.Exit")
        ch=int(input("Enter your choice:"))
        if ch==1:
            acc_number=input("Enter account number:")
            acc_owner=input("Enter account owner name:")
            acc_balance=float(input("Enter opening balance:"))
            account=Account(acc_number,acc_owner,acc_balance)
            bank.add_account(account)
            print("Account created successfully")
        elif ch==2:
            acc_number=input("Enter account number:")
            amount=float(input("Enter amount to deposit:"))
            account=find_account(bank.accounts,acc_number)
            if account:
                account.deposit(amount)
                print("Deposit successful")
            else:
                print("Account not found")
        elif ch==3:
            acc_number=input("Enter account number:")
            amount=float(input("Enter amount to withdraw:"))
            account=find_account(bank.accounts,acc_number)
            if account:
                account.withdraw(amount)
                print("Withdrawal successful")
            else:
                print("Account not found")
        elif ch==4:
            print("Thank you for using the Bank Management System")
            break
        else:
            print("Invalid Entery")
def find_account(accounts,number):
    for account in accounts:
        if account.number==number:
            return account
    return None
if __name__=="__main__":
    main()
```

```
Enter bank name:SBI
Bank SBI created successfully
1.Create Account
2.Deposit
3.Withdraw
4.Exit
Enter your choice:1
```

```
Enter account number:12344345342
Enter account owner name:Divya Kanwar
Enter opening balance:4000
Account created successfully
1.Create Account
2.Deposit
3.Withdraw
4.Exit
Enter your choice:2
Enter account number:1234434542
Enter amount to deposit:500
Account not found
1.Create Account
2.Deposit
3.Withdraw
4.Exit
Enter your choice:2
Enter account number:12344345342
Enter amount to deposit:500
Deposit successful
1.Create Account
2.Deposit
3.Withdraw
4.Exit
Enter your choice:4
Thank you for using the Bank Management System
```

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