

# bank-class

Use the "Run" button to execute the code.

```
!pip install jovian --upgrade --quiet
```

```
import jovian
```

```
# Execute this to save new versions of the notebook  
jovian.commit(project="bank-class")
```

```
class Bank:  
    name=[]  
    accountid=[]  
    c=1  
    balance=[]  
    def create(self):  
        self.name=input('enter your name here: ')  
        self.balance=int(input('enter amount atleast Rs 2000: '))  
  
        if self.balance>=2000:  
            print('account has been created with id',Bank.c,'on the name of',self.name,  
                  Bank.name.append(self.name)  
                  Bank.balance.append(self.balance)  
                  Bank.c+=1  
        else:  
            print('Balance is less than 2000 Plz create again')  
  
    def deposit(self):  
        self.id=int(input("enter your account id here: "))  
  
        print('your name is',Bank.name[self.id-1])  
        print('your balance is',Bank.balance[self.id-1])  
        self.a=int(input('enter the amount you want to deposit here: '))  
        self.d=Bank.balance[self.id-1]+self.a  
        print(Bank.balance[self.id-1],self.a)  
        print(self.id)  
        Bank.balance.pop(self.id-1)  
        print(Bank.balance)  
        Bank.balance.insert(self.id-1,self.d)  
        print(Bank.balance)  
        print('your amount',self.a,' has been deposited and your new balance is',self.c  
  
    def withdraw(self):  
        self.id=int(input("enter your account id here: "))  
  
        print('your name is',Bank.name[self.id-1])  
        print('your balance is',Bank.balance[self.id-1])  
        self.d=0
```

```

while self.d<2000:
    self.a=int(input('enter the amount you want to withdraw here: '))
    self.d=Bank.balance[self.id-1]-self.a

    if self.d>2000:
        break
    else:
        print('Minimum balance cannot be less than 2000')

print(Bank.balance[self.id-1],self.a)
print(self.id)
Bank.balance.pop(self.id-1)
print(Bank.balance)
Bank.balance.insert(self.id-1,self.d)
print(Bank.balance)
print('your amount',self.a,' has been withdraw and your new balance is',self.d)

def display(self):
    self.id=int(input("enter yout account id here: "))
    print('your name is',Bank.name[self.id-1])
    print('your balance is',Bank.balance[self.id-1])

```

```

user=Bank()
while True:
    print("Welcome to SudoSpark Bank")
    print("1.Create Bank Account")
    print("2.Deposite Cash")
    print("3.Withdrae Cash")
    print("4.Display Account Information")
    print("0.Exit")

    choice=int(input("Enter your choice:"))
    if choice==1:
        user.create()
    elif choice==2:
        user.deposite()
    elif choice==3:
        user.withdraw()
    elif choice==4:
        user.display()
    elif choice==0:
        break
    else:
        print('Invalid Choice')

```

Welcome to SudoSpark Bank

```
1.Create Bank Account
2.Deposite Cash
3.Withdrae Cash
4.Display Account Information
0.Exit
Enter your choice:4
enter yout account id here: 1
```

-----  
**IndexError** Traceback (most recent call last)

/tmp/ipykernel\_35/4202419748.py in <module>

```
16         user.withdraw()
17     elif choice==4:
---> 18         user.display()
19     elif choice==0:
20         break
```

/tmp/ipykernel\_35/3520028613.py in display(self)

```
59     def display(self):
60         self.id=int(input("enter yout account id here: "))
---> 61         print('your name is',Bank.name[self.id-1])
62         print('your balance is',Bank.balance[self.id-1])
```

**IndexError**: list index out of range

```
class Bank:
    account_no=202200
    def create_account(self):
        Bank.account_no+=1
        self.accno=Bank.account_no
        print("Your account created: ",self.accno)
        self.name=input("Enter name: ")
        while True:
            self.amount=float(input("Enter amount to start account: "))
            if self.amount<2000:
                print('you need minimum 2000 to start a account \n please enter amount greater
            else:
                break
        print("Account number:"+str(self.accno)+" Name:"+self.name+" Amount:"+str(self.amou
    def __str__(self):
        return "Account number:"+str(self.accno)+" Name:"+self.name+" Amount:"+str(self.amc
    def deposit_ammount(self):
        while True:
            self.deposit=float(input("Enter amount to deposit: "))
            if self.deposit<=0:
                print('please enter amount greater than 0')
            else:
                self.amount +=self.deposit
                break
    def withdraw_ammount(self):
```

```

while True:
    self.withdraw=float(input("Enter amount to withdraw: "))
    amnt = self.amount-self.withdraw
    if self.withdraw<=0 or amnt<2000:
        print('Transaction will lead to minimum account hence terminated')
    else:
        self.amount = amnt
        break

```

```

acclist=[]
while True:
    ch=int(input("\n1.Create Account\n2.Check Balance\n3.Deposit Amount\n4.Withdraw amount\n"))
    if ch==1:
        b=Bank()
        b.create_account()
        acclist.append(b)
    elif ch==2:
        searchno=int(input("Enter account number:"))
        flag=False
        for i in acclist:
            if i.accno==searchno:
                print(i)
                flag=True
        if flag==False:
            print("Account doesn't exist\ncreate a account first")

    elif ch==3:
        searchno=int(input("Enter account number:"))
        flag=False
        for i in acclist:
            if i.accno==searchno:
                i.deposit_amount()
                print(i)
                flag=True
        if flag==False:
            print("Account doesn't exist\ncreate a account first")

    elif ch==4:
        searchno=int(input("Enter account number:"))
        flag=False
        for i in acclist:
            if i.accno==searchno:
                i.withdraw_amount()
                print(i)
                flag=True
        if flag==False:
            print("Account doesn't exist\ncreate a account first")

    elif ch==0:
        print("Exiting.....")
        break

```

```
else:  
    print("Error")
```

```
1.Create Account  
2.Check Balance  
3.Deposit Amount  
4.Withdraw amount  
0.Exit  
:1  
Your account created: 202201  
Enter name: amey  
Enter amount to start account: 2500  
Account number:202201 Name:amey Amount:2500.0
```

```
1.Create Account  
2.Check Balance  
3.Deposit Amount  
4.Withdraw amount  
0.Exit  
:3  
Enter account number:100000  
Account doesnt exist  
create a account first
```

```
1.Create Account  
2.Check Balance  
3.Deposit Amount  
4.Withdraw amount  
0.Exit  
:3  
Enter account number:1  
Account doesnt exist  
create a account first
```

```
1.Create Account  
2.Check Balance  
3.Deposit Amount  
4.Withdraw amount  
0.Exit  
:0  
Exiting.....
```

