oops-assignment

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="oops-assignment")
```

```
class Rectangle:
    def __init__(s,l,b):  #perimeter
        s.l=l
        s.b=b
        s.area=(s.l)*(s.b)
        s.perimeter=2*(s.l+s.b)
        print('area=',s.area,'perimeter',s.perimeter)

a=Rectangle(5,10)
```

```
area= 50 perimeter 30
```

```
#class Rectangle:
def area(s,l,b):  #perimeter
    area=(l)*(b)
    perimeter=2*(l+b)
    print('area=',area,'perimeter',perimeter)


area(5,10)
```

```
area= 50 perimeter 30
```

```
a=Rectangle()
```

```
a.area(5,10)
```

```
area= 50 perimeter 30
```

```
b=Rectangle()
```

```
b.area(8,19)
```

```
area= 152 perimeter 54
```

```
class Car():
    def brand(self,b):
        self.b='sadha'
    def model(self,color):
        self.color=color
    def info(self):
        print("Brand is",self.b,"and color is",self.color)

s=Car()
s.brand('bmw')
s.model('black')

s.info()
```

```
Brand is sadha and color is black
```

```
class Bank:
  name=[]
  AccountNo=[]
  Balance=[]
  count=0
  def createAccount(self):
    print("******Create your Bank Account******")
    self.name=input("Enter your name")
    while True:
      self.amount=float(input("Enter an amount to deposit"))
      if self.amount>=2000:
        print("Congratulations",self.name+"! Your Account has been successfully created
        self.Account_No=int("11"+str(Bank.count))
        print("Your Account Number is:",self.Account_No)
        Bank.AccountNo.append(self.Account_No)
        Bank.name.append(self.name)
        break
      else:
        print("Sorry, the entered Amount is less than 2000")
    Bank.Balance.append(self.amount)
    Bank.count+=1

  def deposit(self):
    print("******Deposit Cash******")
    self.Account_No=input("Enter your Account No:")
    Bank.count=int(self.Account_No.replace( "11",""))
    if Bank.count < len(Bank.Balance)+1:
      while True:
        self.New_Amount=float(input("Enter an Amount to Deposit"))
        if self.New_Amount>=0:
          Bank.Balance[Bank.count]=Bank.Balance[Bank.count]+self.New_Amount
          print("Your amount of Rs.",self.New_Amount,"has been successfully deposited i
          break
        else:
          print("Sorry, the entered amount is invalid")
```

```
    else:
      print("Sorry, the Account No. is invalid")
    print("Your account balance is:",Bank.Balance[Bank.count])

  def withdrawal(self):
    print("******Withdraw Cash******")
    self.Account_No=input("Enter your Account No:")
    Bank.count=int(self.Account_No.replace( "11",""))
    if Bank.count < len(Bank.Balance)+1:
      while True:
        self.New_Amount=float(input("Enter an Amount to Withdraw"))
        if self.New_Amount>=0:
          Bank.Balance[Bank.count]=Bank.Balance[Bank.count]-self.New_Amount
          print("Your amount of Rs.",self.New_Amount,"has been successfully withdrawn f
          break
        else:
          print("Sorry, the entered amount is invalid")
    else:
      print("Sorry, the Account No. is invalid")
    print("Your account balance is:",Bank.Balance[Bank.count])

  def displayBalance(self):
    print("******Display Balance******")
    self.Account_No=input("Enter your Account No:")
    Bank.count=int(self.Account_No.replace( "11",""))
    if Bank.count < len(Bank.Balance):
      print("Your account balance is:",Bank.Balance[Bank.count])
    else:
      print("Sorry, the Account No. is invalid")
    super().exit

  def exit(self):
    while True:
      break
```

```
u=Bank()
print("***BANK***")
print("1.Create Bank Account")
print("2.Deposit Cash")
print("3.Withdraw Cash")
print("4.Display Balance")
print("0.Exit")

def choice(i):

  switcher={
      0:u.exit(),
      1:u.createAccount(),
      2:u.deposit(),
      3:u.withdrawal(),
      4:u.displayBalance(),
```

```
        }
    choice.switcher[i]

    return switcher.get(i,"Invalid Choice")
choice(int(input("Enter a choice")))
```