In [ ]:
```
# need some requirments for the opening of accounts
```

In [ ]:
```
1. account holder name
2. ifsc code
3. cif number
4. type of account number
5. address
6. contect number
7. balance

transaction
deposit
```

In [32]:
```
class Banking:
    Intrastrate= 0.06
    def __init__(self,account_name,account_number,IFSC,CIF,type_of_account,add
        self.account_name = account_name
        self.account_number = account_number
        self.IFSC = IFSC
        self.CIF = CIF
        self.type_of_account = type_of_account
        self.address = address
        self.contact_number = contact_number
        self.balance = 0
        self.account_statement = []

    def transaction(self,amount):
        if self.balance< amount:
            print(f"sorry! you have incufficient balance")
            print(f"your balance is {self.balance}")
        else:
            print(f"transaction of {amount} is successfull")
            self.balance-=amount
            print(f"your balance is {self.balance}")
            d = {"type_":"dabit","trans_amount": amount,"user_balance":self.ba
            self.account_statement.append(d)

    def deposit(self,amount):
            print(f"{amount} is successfully deposited")
            self.balance+=amount
            print(f"your final balance is {self.balance}")
            d = {"type_":"credit","trans_amount": amount,"user_balance":self.b
            self.account_statement.append(d)

    def apply_Interest(self,date):
        self.date = date
        if self.balance >60000:
            interest= self.balance*banking.interest_rate
            self.balance+=interest
            d = {"date":self.date,"type_":"interest credit","interest amount":
            self.account_statement.append(d)
```

executed in 9ms, finished 14:22:15 2024-05-14

In [33]:
```
shree = Banking("shree vish","1234567","SBI********","EXD********","current","
neelam = Banking("neelam soni","1234567","PNB********","EXD********","saving",
shweta = Banking("shweta sigh","1234567","HDFC*******","EXD********","saving",
```

executed in 4ms, finished 14:22:18 2024-05-14

In [35]:
```
shree.balance
```

executed in 6ms, finished 14:22:57 2024-05-14

Out[35]: 0

In [36]:
```
shree.transaction(5000)
```
executed in 4ms, finished 14:22:59 2024-05-14

```
sorry! you have incufficient balance
your balance is 0
```

In [37]:
```
shree.deposit(1000)
```
executed in 3ms, finished 14:23:03 2024-05-14

```
1000 is successfully deposited
your final balance is 1000
```

In [38]:
```
shweta.deposit(10000)
shweta.deposit(150000)
```
executed in 3ms, finished 14:23:05 2024-05-14

```
10000 is successfully deposited
your final balance is 10000
150000 is successfully deposited
your final balance is 160000
```

In [106]:
```
shweta.balance
```
executed in 5ms, finished 16:22:59 2024-05-12

Out[106]:
```
160000
```

In [39]:
```
shweta.account_statement
```
executed in 5ms, finished 14:23:08 2024-05-14

Out[39]:
```
[{'type_': 'credit', 'trans_amount': 10000, 'user_balance': 10000},
 {'type_': 'credit', 'trans_amount': 150000, 'user_balance': 160000}]
```

In [40]:
```
neelam.balance
```
executed in 5ms, finished 14:23:16 2024-05-14

Out[40]:
```
0
```

In [41]:
```
neelam.deposit(100)
```
executed in 4ms, finished 14:23:17 2024-05-14

```
100 is successfully deposited
your final balance is 100
```

In [42]:
```
shree.account_statement
```
executed in 5ms, finished 14:23:19 2024-05-14

Out[42]:
```
[{'type_': 'credit', 'trans_amount': 1000, 'user_balance': 1000}]
```

In [116]:
```
neelam.account_statement
```
executed in 5ms, finished 16:25:34 2024-05-12

Out[116]:
```
[{'type_': 'credit', 'trans_amount': 15400000, 'user_balance': 15400000}]
```

In [43]:
```
neelam.account_statement[-4:]
```
executed in 5ms, finished 14:23:21 2024-05-14

Out[43]:
```
[{'type_': 'credit', 'trans_amount': 100, 'user_balance': 100}]
```

In [44]:
```
shree.account_statement[-5:]
```
executed in 4ms, finished 14:23:23 2024-05-14

Out[44]:
```
[{'type_': 'credit', 'trans_amount': 1000, 'user_balance': 1000}]
```

In [13]:
```
neelam.apply_Interest("04-04-2024")
```
executed in 3ms, finished 13:37:50 2024-05-14

In [14]:
```
neelam.balance
```
executed in 5ms, finished 13:37:59 2024-05-14

Out[14]:
```
200
```

In [15]:
```
neelam.deposit(100)
```
executed in 4ms, finished 13:38:13 2024-05-14

```
100 is successfully deposited
your final balance is 300
```

In [17]:
```
shree.apply_Interest("14-5-2024")
```
executed in 4ms, finished 13:39:22 2024-05-14

In [18]:
```
shree.balance
```
executed in 18ms, finished 13:39:32 2024-05-14

Out[18]:
```
0
```

In [45]:
```
shree.deposit(15000)
```
executed in 4ms, finished 14:23:30 2024-05-14

```
15000 is successfully deposited
your final balance is 16000
```

In [46]:
```
shree.transaction(15)
```
executed in 4ms, finished 14:23:32 2024-05-14

```
transaction of 15 is successfull
your balance is 15985
```

In [47]:
```
shree.balance
```
executed in 5ms, finished 14:23:34 2024-05-14

Out[47]: 15985

In [48]:
```
shree.apply_Interest("15-12-2024")
```
executed in 3ms, finished 14:23:36 2024-05-14

In [49]:
```
shree.balance
```
executed in 5ms, finished 14:23:38 2024-05-14

Out[49]: 15985

In [79]:
```
class loanaccount(Banking):
    rate_of_interest = 0.24
    def __init__(self,account_number,loan_amount,account_name):

        self.loan_amount = loan_amount
        interest = loan_amount*loanaccount.rate_of_interest
        self.payable_amount= loan_amount*interest

    def approve_loan(self):
        if self.balance>loan_amount:
            print(f"congrats your loan has been passed")
            print(f"your {loan_amount} has been successfully disbursed to your
            interest = loan_amount*rate_of_interest
            self.payable_amount= loan_amount*interest

    def repay_amount(self,amount_):
        self.payable_amount -= amount_
        print(f"payment of {amount_} was successful")
        print(f"payable amount is {self.payable_amount}")
```
executed in 6ms, finished 16:03:47 2024-05-14

In [80]:
```
shree.account_number
```
executed in 5ms, finished 16:03:48 2024-05-14

Out[80]: '1234567'

In [85]:
```
shree = loanaccount("1234567",6000,"shree vish")
```
executed in 3ms, finished 16:04:41 2024-05-14

In [86]:
```
shree.repay_amount(500)
```
executed in 4ms, finished 16:04:43 2024-05-14

```
payment of 500 was successful
payable amount is 8639500.0
```

In [ ]:

In [ ]:

In [ ]: