Pao Ying Chub Game

```
import random #use to random number
```

```
# define function to validate selected choice
def validate_selected(selected: int) -> bool:
    if 1<= selected <= 3:
        return True
    else:
        return False
```

```
print("+!+!+!+!+!+Welcome to  Pao Ying Chub Game +!+!+!+!+!+")
player_name =  input("what's your name ? ")
print(f"Hello !___{player_name}___")
ans = input("Are you ready to play ? (Y/N) ")
if ans == 'Y':
    #declare valiable
    n_round = 0
    win  = 0
    loss = 0
    same = 0
    player_selected = 0
    choice = {
        "name":["Paper","Scissors","Rock"],
        "value": [1,2,3]
     }
    while ans == 'Y':
        n_round += 1
        print(">>>>> Your choices: <<<<<")
        i = 0
        while i<= len(choice['name']) - 1 :
            print(f"{i+1}. {choice['name'][i]}")
            i+=1
        valid_selected = False
        while not valid_selected:
            player_selected = int(input(">>>>> Please select one:(1/2/3) "))
            valid_selected = validate_selected(player_selected)
        # bot think
        bot_selected = random.randint(1, 3)
       # print(f"Bot select: {bot_selected}")
        if bot_selected == player_selected:
            same += 1
            print("You Same !")
        else:
            if player_selected == 3:
                if bot_selected == 1:
                    loss += loss +1
                    print("You Loss !")
                else:
                    win += win +1
                    print("You Win !")
            elif player_selected == 2:
                if bot_selected == 1:
                    win += 1
                    print("You Win !")
                else:
                    loss += 1
                    print("You Loss !")
            else:
                if bot_selected == 2:
                    loss += 1
                    print("You Loss !")
                else:
```

```
                    win += 1
                    print("You Win !")
        ans = input("Do you want to play again ? Y/N")
    #sum score
    print("|------------Sumarize Your Score---------------|")
    print(f"|     You play: {n_round}                              |")
    print(f"|         win: {win}                            |")
    print(f"|         loss: {loss}                           |")
    print(f"|         same: {same}                          |")
    print("|-----------------------------------------------|")
else:
    print(f"Bye {player_name}, see you again")
```

```
+!+!+!+!+Welcome to  Pao Ying Chub Game +!+!+!+!+
what's your name ?  Mo
Hello !___Mo___
Are you ready to play ? (Y/N)  Y
>>>>> Your choices: <<<<<
1. Paper
2. Scissors
3. Rock
>>>>> Please select one:(1/2/3)  2
You Same !
Do you want to play again ? Y/N Y
>>>>> Your choices: <<<<<
1. Paper
2. Scissors
3. Rock
>>>>> Please select one:(1/2/3)  3
You Same !
Do you want to play again ? Y/N Y
>>>>> Your choices: <<<<<
1. Paper
```

ATM

To define ATM Class with functions:

- check_balance
- debit
- credit
- payment
- change_passwd
- change_accountname

- get_menu

```
# define ATM Class
class ATM:
  def __init__(self,name,balance,username,passwd):
    self.name = name
    self.balance = balance
    self.username = username
    self.passwd = passwd
  # Check balance
  def check_balance(self):
    print(" ---------- Your Account Details ----------")
    message = f"Account Name: {self.name} , Balance: {self.balance}"
    print(message)
  # Withdraw
  def withdraw(self):
    print(" ---------- Your withdraw transaction ----------")
    amount = int(input("Input withdraw amount: "))
    if self.balance < amount:
      print("+++++ Withdraw unsuccessfully: insufficient +++++")
    else:
      self.balance -= amount
      print("+++++ Withdraw successfully +++++")
      print(f"New Balance: {self.balance}")
  #Deposit
  def deposit(self):
    print(" ---------- Your deposit transaction ----------")
    amount = int(input("Input deposit amount: "))
    self.balance += amount
    print("Deposit successfully")
    print(f"New Balance: {self.balance}")
  # Payment
  def payment(self):
    print(" ---------- Your payment transaction ----------")
    bill_ref = input("Input Biller Ref: ")
    amount = int(input("Input payment amount: "))
    if self.balance < amount:
      print(f"+++++ Payment to {bill_ref} unsuccessfully: insufficient +++++")
    else:
        self.balance -= amount
        print(f"+++++ Payment to {bill_ref} successfully +++++")
        print(f"New Balance: {self.balance}")
  # Change Acct Aame
  def change_acctname(self):
    print(" ---------- Change your account name ----------")
    new_acct_name = input("Input New Name: ")
    self.name = new_acct_name
    print("Your account name has been changed")
    print(f"New Account Name: {self.name}")
  # Change Password
  def change_passwd(self):
    print(" ---------- Change your password ----------")
    new_acct_name = input("Input New Password: ")
    self.name = new_acct_name
```

```
    print("Your Password has been changed")
  # Login
  def login(self,username,password) -> bool:
      if username ==  self.username and password == self.passwd:
        return True
      else:
        return False
  # Display Menu
  def display_menu(self) -> str:
      print(">>>>>>> This is Your ATM menu: <<<<<<<")
      print("1. Check Balance")
      print("2. Deposit")
      print("3. Withdraw")
      print("4. Payment")
      print("5. Change Account Name")
      print("6. Change Password")
      return input(">>>>> Please select menu (1,2,3,4,5,6): ")
```

```
# Main function
print("+!+!+!+!+Welcome to  ATM  System+!+!+!+!+")
# initial ATM Obj
my_atm = ATM("Mo",1500,"mousr","P@sswd")

#login
usr_name = input("Input Username: ")
passwd = input("Input Password: ")
if my_atm.login(usr_name,passwd):
    ans = 'Y'
    while ans == 'Y':
        menu_selected = my_atm.display_menu()
        if menu_selected == '1':
            my_atm.check_balance()
        elif menu_selected == '2':
            my_atm.deposit()
        elif menu_selected == '3':
            my_atm.withdraw()
        elif menu_selected == '4':
            my_atm.payment()
        elif menu_selected == '5':
            my_atm.change_acctname()
        elif menu_selected == '6':
            my_atm.change_passwd()
        else:
            print("Your selected menu number is invalid !")
        ans = input("Do you want to do next ? (Y/N) ")
else:
    print("Your username or password is invalid")
print("+!+!+!+!+Bye ,See you again +!+!+!+!+")
```

```
+!+!+!+!+Welcome to  ATM  System+!+!+!+!+
Input Username:  mousr
Input Password:  P@sswd
>>>>>>> This is Your ATM menu: <<<<<<<
1. Check Balance
2. Deposit
3. Withdraw
4. Payment
5. Change Account Name
6. Change Password
>>>>> Please select menu (1,2,3,4,5,6):  1
 ---------- Your Account Details ----------
Account Name: Mo , Balance: 1500
Do you want to do next ? (Y/N)  Y
>>>>>>> This is Your ATM menu: <<<<<<<
1. Check Balance
2. Deposit
3. Withdraw
4. Payment
5. Change Account Name
```