In [ ]:

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class Bank:
    def __init__(self):
        self.client_details_list = []
        self.loggedin = False
        self.cash=100
        self.TransferCash = False

    def register(self,name,ph,password):
        cash = self.cash
        conditions = True
        if (len(str(ph)) > 10) or (len(str(ph))<10):
            print("Invalid Phone number ! Please enter 10 digit number")
            conditions = False

        if (len(password)<5) or  (len(password)>18):
            print("Enter password greater than 5 and less than 18 character")
            conditions = False

        if conditions == True :
            print("Account Created Successfully")
            self.client_details_list = [name,ph,password,cash]
            with open(f"{name}.txt","w") as f:
                for details in self.client_details_list:
                    f.write(str(details)+"\n")

    def login(self,name,ph,password):
        with open(f"{name}.txt","r") as f:
            details = f.read()
            self.client_details_list = details.split("\n")
            if str(ph) in str(self.client_details_list):
                if str(password) in str(self.client_details_list):
                    self.loggedin = True

            if self.loggedin == True:
                print(f"{name} logged in")
                self.cash = int(self.client_details_list[3])
                self.name=name

            else:
                print("Wrong Details")

    def add_cash(self,amount):
        if amount > 0:
            self.cash += amount
            with open(f"{name}.txt","r") as f:
                details = f.read()
                self.client_details_list = details.split('\n')

            with open(f"{name}.txt","w") as f:
                f.write(details.replace(str(self.client_details_list[3]),str(self.cash)))

            print("Amount Added Successfully")

        else:
            print("Enter correct value of amount")


    def Transfer_cash(self,amount,name,ph):
        with open(f"{name}.txt","r+") as f:
            details = f.read()
            self.client_details_list = details.split("\n")
            if str(ph) in self.client_details_list:
                self.TransferCash = True


        if self.TransferCash == True:
            total_cash = int(self.client_details_list[3])+amount
            left_cash = self.cash - amount
            with open(f"{name}.txt","w") as f:
                f.write(details.replace(str(self.client_details_list[3]),str(total_cash)))

            with open(f"{self.name}.txt","r") as f:
                details_2=f.read()
                self.client_details_list = details_2.split("\n")

            with open(f"{self.name}.txt","w") as f:
                f.write(details_2.replace(str(self.client_details_list[3]),str(left_cash)))

            print("Amount Transferred Successfully to",name,"-",ph)
            print("Balance left =",left_cash)
            self.cash = left_cash

    def password_change(self,password):
        if len(password) < 5 or len(password) > 18:
            print("Enter password greater than 5 and less than 18 character")

        else:
            with open(f"{self.name}.txt","r") as f:
                details = f.read()
                self.client_details_list = details.split("\n")

            with open(f"{self.name}.txt","w") as f:
                f.write(details.replace(str(self.client_details_list[2]),str(password)))
            print("New Password set up Successfully")

    def ph_change(self,ph):
        if (len(str(ph)) > 10) or (len(str(ph)) < 10) :
            print("Invalid Phone Number ! please enter 10 digit number")

        else:
            with open(f"{self.name}.txt","r") as f:
                details = f.read()
                self.client_details_list = details.split("\n")

            with open(f"{self.name}.txt","w") as f:
                f.write(details.replace(str(self.client_details_list[1]),str(ph)))
            print("New Phone Number set up successfully")


if __name__ == "__main__":

    Bank_object = Bank()
    print("Welcome to My Bank")
    print("1. Login")
    print("2. Create a new Account")

    user = int(input("Make Decision : "))

    if user == 1:
        print("Logging in")
        name = input("Enter Name : ")
        ph = int(input("Enter Phone Number : "))
        password = input("Enter your Password : ")
        Bank_object.login(name,ph,password)
        while True:
            if Bank_object.loggedin:
                print("1.Add Amount")
                print("2.Check Balance")
                print("3.Transfer Amount")
                print("4.Edit Profile")
                print("5.Logout")
                login_user = int(input("Enter choice : "))
                if login_user == 1:
                    print("Balance =",Bank_object.cash)
                    amount=int(input("Enter amount : "))
                    Bank_object.add_cash(amount)
                    print("\n1.Back Menu")
                    print("2.Logout")

                    choose = int(input())
                    if choose == 1:
                        continue
                    elif choose == 2:
                        break

                elif login_user == 2:
                    print("Balance =",Bank_object.cash)
                    print("\n1.Back Menu")
                    print("2.Logout")

                    choose = int(input())
                    if choose == 1:
                        continue
                    elif choose == 2:
                        break

                elif login_user == 3:
                    print("Balance =",Bank_object.cash)
                    amount=int(input("Enter amount: "))
                    if amount >= 0 and amount <= Bank_object.cash:
                        name = input("Enter the person name : ")
                        ph = input("Enter the person phone number : ")
                        Bank_object.Transfer_cash(amount,name,ph)
                        print("\n1.Back Menu")
                        print("2.Logout")

                        choose = int(input())
                        if choose == 1:
                            continue
                        elif choose == 2:
                            break

                    elif amount < 0:
                        print("Enter please correct value of amont")

                    elif amount > Bank_object.cash:
                        print("Not enough balance")

                elif login_user == 4:
                    print("1.Password Change")
                    print("2.Phone Number Change")
                    edit_profile = int(input())
                    if edit_profile == 1:
                        new_password = input("Enter new Password : ")
                        Bank_object.password_change(new_password)
                        print("\n1.Back Menu")
                        print("2.Logout")

                        choose = int(input("Enter your choice : "))
                        if choose == 1:
                            continue
                        elif choose == 2:
                            break
                    elif edit_profile == 2:
                        new_ph = int(input("Enter new phone number : "))
                        Bank_object.ph_change(new_ph)
                        print("\n1.Back Menu")
                        print("2.Logout")

                        choose = int(input("Enter your choice : "))
                        if choose == 1:
                            continue
                        elif choose == 2:
                            break

                elif login_user == 5:
                    break

    if user == 2:
        print("Creating a new Account")
        name = input("Enter Name : ")
        ph = int(input("Enter Phone Number : "))
        password = input ("Enter Password : ")
        Bank_object.register(name,ph,password)
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Welcome to My Bank
1. Login
2. Create a new Account
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