

# OOPs - BANKING

Write a python program to replicate a Banking system. The following features are mandatory:

1. Account login
2. Amount Depositing
3. Amount Withdrawal

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Python 3 (ipykernel)

[13]: class BankAccount:
    def __init__(self, account_number, password, balance=0):
        self.account_number = account_number
        self.password = password
        self.balance = balance

    def deposit(self, amount):
        self.balance += amount
        print(f'Deposited: {amount}. New balance: {self.balance}')

    def withdraw(self, amount):
        if amount <= self.balance:
            self.balance -= amount
            print(f'Withdrawn: {amount}. New balance: {self.balance}')
        else:
            print("Insufficient Balance.")

    def check_balance(self):
        print(f'Current balance: {self.balance}')

def main():
    account_number = input("Enter Account Number to Create: ")
    password = input("Set your Password: ")
    account = BankAccount(account_number, password)

    print("\n----- Login -----")
    entered_account_number = input("Enter Your Account Number: ")
    entered_password = input("Enter Your Password: ")

    if entered_account_number == account.account_number and entered_password == account.password:
        print("Login Successful")

        while True:
            print("\n*****")
            print("\n1. Deposit")
            print("\n2. Withdraw")
            print("\n3. Check Balance")
            print("\n4. Exit")

            choice = input("Enter Your Choice: ")

            if choice == '1':
                amount = float(input("Enter Deposit Amount: "))
                account.deposit(amount)

            elif choice == '2':
                amount = float(input("Enter Withdrawal Amount: "))
                account.withdraw(amount)

            elif choice == '3':
                account.check_balance()

            elif choice == '4':
                print("Exiting. Goodbye!!!")
                break

            else:
                print("Invalid choice. Try again.")

        else:
            print("Invalid login credentials.")

if __name__ == "__main__":
    main()
```

```
Enter Account Number to Create: 12345
Set your Password: 123

----- Login -----
Enter Your Account Number: 12345
Enter Your Password: 123
Login Successful!

*****

1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter Your Choice: 1
Enter Deposit Amount: 10000
Deposited: 10000.0. New balance: 10000.0

*****

1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter Your Choice: 2
Enter Withdrawal Amount: 5000
Withdrawn: 5000.0. New balance: 5000.0

*****

1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter Your Choice: 3
Current balance: 5000.0

*****

1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter Your Choice: 4
Exiting. Goodbye!!!
```

\*\*\*\*\*END\*\*\*\*\*