**Statement Coverage:**

**Code to Analyze:**

0) def newAccHandler(masterAccounts, accountNum, accountName):  
 # Checking if account number is already in use.  
1) if (len(masterAccounts) != 0):  
2) for index in range(0, len(masterAccounts)):  
3) if (masterAccounts[index][0] = accountNum):  
4) print(“Cannot create account ” + accountNum + “. It has already been taken.”)  
5) return masterAccounts  
 # Inserting new account in sorted order.  
6) if (len(masterAccounts) == 0):  
7) masterAccounts.append([accountNum, “0”, accountName])  
8) return masterAccounts  
9) for index in range(0, len(masterAccounts)):  
10) if (int(masterAccounts[index][0]) > int(accountNum)):  
11) masterAccounts.insert(index-1, [accountNum, “0”, accountName])  
12) return masterAccounts  
13) if (index == len(masterAccounts) -1):  
14) masterAccounts.append([accountNum, “0”, accountName])  
15) return masterAccounts

|  |  |  |  |
| --- | --- | --- | --- |
| Statement | Function Input | Test | Input |
| 1 | [1234567 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary | T1 | [1234567 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |
| 2 | [1234567 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |  |  |
| 3 | [1234567 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |  |  |
| 4 | [1234567 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |  |  |
| 5 | [1234567 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |  |  |
| 6 | [], 1212121, Areege Chaudhary | T2 | [], 1212121, Areege Chaudhary |
| 7 | [], 1212121, Areege Chaudhary |  |  |
| 8 | [], 1212121, Areege Chaudhary |  |  |
| 9 | [1234567 1337 Garett Douglas MacGowan], 1212121, Areege Chaudhary | T3 | [1234567 1337 Garett Douglas MacGowan], 1212121, Areege Chaudhary |
| 10 | [1234567 1337 Garett Douglas MacGowan], 1212121, Areege Chaudhary |  |  |
| 11 | [1234567 1337 Garett Douglas MacGowan], 1212121, Areege Chaudhary |  |  |
| 12 | [1234567 1337 Garett Douglas MacGowan], 1212121, Areege Chaudhary |  |  |
| 13 | [1212121 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary | T4 | [1212121 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |
| 14 | [1212121 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |  |  |
| 15 | [1212121 1337 Garett Douglas MacGowan], 1234567, Areege Chaudhary |  |  |

**T1:**Covers checking if the new account number already exists, given a non-empty master accounts list.Actual Test Input from Transaction Summary File (assumes function inputs from above)  
NEW 1234567 000 0000000 Areege Chaudhary

**T2:**Covers adding a new account to the master accounts list, given an empty master accounts list.Actual Test Input from Transaction Summary File (assumes function inputs from above)  
NEW 1212121 000 0000000 Areege Chaudhary

**T3:**Covers adding a new account in ascending order to the master accounts list, given that the new account number **is not** the largest value account number in the master accounts list.Actual Test Input from Transaction Summary File (assumes function inputs from above)  
NEW 1212121 000 0000000 Areege Chaudhary

**T4:**Covers adding a new account in ascending order to the master accounts list, given that the new account number **is** the largest value account number in the master accounts list.Actual Test Input from Transaction Summary File (assumes function inputs from above)NEW 1234567 000 0000000 Areege Chaudhary

**TEST REPORT:  
No test failures observed.**