**AddPerson():**

| Test Cases | Test Data | Expected Result | Test Result | Pass/Fail |
| --- | --- | --- | --- | --- |
| Valid Input | fname = John  lname = Doe  id = 23!@34abXY  Address = “45|Highland Street|Melbourne|Victoria|Australia” | Return true  writes person detail to file |  |  |
| Invalid ID format | ID = "12ab#XY" | Return false |  |  |
| Invalid Address Format | Address = "Main Street, VIC" | Return false |  |  |
| Invalid State (not VIC) | Address = “32|Highland Street|Melbourne|Queensland|Australia” | Return False |  |  |
| Invalid Birthday Format | | Birthdate = "1990-11-15" | | --- | | Return False |  |  |

**updatePersonDetails():**

Base case for person (unless test data says pre existing):

fname = John

lname = Doe

id = 23!@34abXY

Address = “45|Highland Street|Melbourne|Victoria|Australia”

| Test Cases | Test Data | Expected Result | Test Result | Pass/Fail |
| --- | --- | --- | --- | --- |
| Valid change name and address | fname = Lebron  lname = James  Address = “41|Highland Street|Melbourne|Victoria|Australia” | Return true  Changes written to person file |  |  |
| Under 18 tries address change | (pre existing)Birthday = 01-01-2010  Address= “45|Highland Street|Melbourne|Victoria|Australia” | Return false |  |  |
| Invalid Changing Birthday + Another field change | Birthday = 01-01-2000  fname = Donald | Return false |  |  |
| Invalid change ID while ID starts with even Number | (pre existing)ID = "46s\_d%&fAB"  ID = “56s\_d%&fAB” | Return false |  |  |
| Valid birthday change | (pre existing)Birthday = 01-01-2000  Birthday = “02-02-1999” | Return true  Birthday updated |  |  |

**addDemeritPoints():**

| Test Cases | Test Data | Expected Result | Test Result | Pass/Fail |
| --- | --- | --- | --- | --- |
| Valid demerits under 21 and over 6 points | (preexisting) Birthday = 01-01-2005  (preexisting) Demerits (in last 2 years) = 4  Demerits += 3 | “Success”  isSuspended = true |  |  |
| Valid demerits over 21 and under 12 points | (pre existing) Birthday = 01-01-2000  (preexisting) Demerits (in last 2 years) = 4  Demerits += 3 | “Success”  isSuspended = false |  |  |
| Invalid Date of Offence | Date = 2000-12-12 | “Failed” |  |  |
| Invalid Point Value | Demerits+= 10 | “Failed” |  |  |
| Valid Demerits Under 21 and Under 6 points | (preexisting) Birthday = 01-01-2005  (preexisting) Demerits (in last 2 years) = 4  Demerits += 1 | “Success”  isSuspended = false |  |  |