Test cases:

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| Scenario | Test cases | Test Data | Expected result | test result | Pass/Fail |
| Check the functionality of the addUser function | Test case 1: Verify the function with a correct userID, address, name, last name and address  Test case 2: Verify the function with an Incorrect userID, invalid first and last name and letters in birthdate  Test case 3: Verify the function with correct ID but null inputs  Test case 4: Verify the addUser function by adding someone with a duplicate ID  Test case 5: Verify function with correct userId and other inputs except address with incorrect format, wrong state, letters as number and wrong size. | UserID: 78l\_f%&cCB  Firstname: Steve  Lastname: Smith  Address: 15 | Example Street | Melbourne | Victoria | Australia. Birthdate 01-01-2025  UserID: ct4tfe  Firstname: 4f2dg  Lastname: Sm5the  Address: no  Birthdate 30-02-2025  UserID: 68l\_f%&yXZ  Firstname: “”, lastname: “”, Address: “” , Birthdate = five-12-2025  UserID: 78l\_f%&cCB  Firstname: Steve  Lastname: Smith  Address: 15 | Example Street | Melbourne | Victoria | Australia. Birthdate 01-01-2025  UserID: 78l\_f%&cBB  Name: John  Lastname: Doe  Birthdate 15-09-2000  Address: five | 32 | pipe | 2345 | %3DT4@~ | France | 4323458 | Success!  User Added  Failed: UserID is invalid  Firstname is invalid  Lastname is invalid  Address is invalid  Birthdate is invalid  Failed: Firstname is invalid Lastname is invalid Address is invalid Birthdate is invalid  Failed: UserID already exists  Failed: Address is invalid: Address is in the wrong format. Victoria must be State | Person added with ID: 78l\_f%&cCB  ID wrong size  Person ID is invalid  Failed to add person. Please check the input values.  Address must have 5 parts separated by '|'.  Address is invalid  Failed to add person. Please check the input values.  Person ID already exists  Failed to add person. Please check the input values.  Street number must be a valid number.  Address is invalid  Failed to add person. Please check the input values. | Pass  Pass  Pass  Pass  Pass |
| Check the functionality of the updatePersonalDetails  function | Test case 1: Verify the function with a correct userID, address, name, last name and address  Test case 2: Verify function by changing nothing about a user  Test case 3: Verify function by updating fields with an incorrect value  Test case 4: Verify function change conditions by changing an under 18yo’s address and ID at the same time  Test case 5: Verify the function by changing a user ID that begins with an even number | Note: “” will mean a skip:  ID: 77l\_f%&cCB  Name: “” Lastname: “”  Address: 15 | Example Street | Melbourne | Victoria | Australia  Birthdate: “”  NOTE ALL VALUES THE SAME AS ALREADY IN TXT FILE  ID: 77l\_f%&cCB  Name “Anthony”, Lastname “Brown”, Address: 15 | Example Street | Melbourne | Victoria | Australia  Birthdate: 19-12-1999  ID: 77l\_f%&cCB Name 2453 Lastname 345654$@  Address: knakjd|adn2e@$\*&  Birthdate: 12  ID: 77l\_f%&cCB  Name: Child Lastname: Smith  Address: 16 | Example Street | Melbourne | Victoria | Australia  Birthdate: 19-01-2007  UserID: 28l\_f%&ccb  NewUserID: 77l\_f%&cCB  Address: “”, Birthdate “”, Name”” Lastname”” | Success! User Details Updated  Success: Details updated  Failiure! ID is invalid. Name is invalid. Lastname is Invalid. Address is invalid. Address is in the wrong format Birthdate is invalid  Failiure. Condition Cannot update userId and Address at the same time. Cannot change address of a under 18 or under  Failure: Cannot change a user ID that begins with an even number. | completed validation  Personal details updated successfully.  Personal details updated for person ID: 77l\_f%&cCB  completed validation  Personal details updated successfully.  Personal details updated for person ID: 77l\_f%&cCB  Address is invalid  Failed to update personal details. Please check the input values  Your address will not be changed as you are under 18  new ID is invalid  Failed to update personal details. Please check the input values. | Pass  Pass  Pass  Pass  Pass |
| Check the functionality of the addDemeritPoints function | Test case 1: Verify the function by adding correct input to a user with no demerits  Test case 2: verify function by adding invalid values to a user without demerits  Test case 3: verify function by adding enough points to suspend license  Test case 4: Verify function by adding demerit points to a driver with a suspended license  Test case 5: Verify function by using invalid demerit point amounts and dates | Id: 28l\_f%&ccb  Date: 19-01-2025  Demerits: 2  Id: 28l\_f%&ccb  Date: 74#$235  Demerits: a@  Id: 28l\_f%&ccb  Date: 01-01-2025  Demerits: 5 (user already has 7)  Id: 28l\_f%&ccb  Date: 01-01-2025  Demerits: 5  Id: 28l\_f%&ccb  Date: 01-01-2025  Demerits: 7 | Success! Demerit point added to user.  Failure: Date is invalid. Demerit points must be a valid number between 1-6.  Success! Demerit points added to user. License = Suspended  Success! Demerit points added to user.  Failure! Demerit points must be a number 1 – 6. | Demerit points added for person ID: 28l\_f%&ccb  Demerit points must be between 1 and 6. | Pass  Pass |