EXAM-REPLACEMENT COURSE WORK -2021

Subject: Programming and Algorithm

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Testing

Black box testing:

TEST NAME: ADD DATA TEST					
PRE-CONDITION: USER NEEDS TO FILL ALL THE FIELDS WITH VALID DATA					
S.N	**Test Case**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1.	**Valid details are to be added to each field.**	**All valid inputs**	**Added Successfully**	**Added Successfully**	**PASS**
2.	**Invalid data are to be added or any of the field is kept empty.**	**Empty name field.**	**Data adding unsuccessful.**	**Data not added**	**PASS**

CASE 1:

CASE 2:

Test Name: DELETE DATA TEST

Pre-Condition: THERE SHOULD BE AN EXISTING DATABASE

S.N	Test Case	Test Data	Expected Result	Actual Result	Remarks
1.	User permission is asked before deletion of data.	User permit is asked.	Pop up window appeared	Pop up window appeared	PASS
2.	User data is to be deleted	User data is selected and delete button is clicked.	Deleted Successfully	Deleted Successfully	PASS

S.N	Test Case	Test Data	Expected Result	Actual Result	Remarks
Test Name: UPDATE DATA					
Pre-Condition: USER NEEDS TO MAKE CHANGES TO EXISTING DATA					
1.	**Any one of the entry is to be changes by a valid data.**	**Valid input change in any field.**	**Updated successfully**	**Updated successfully**	**PASS**

Test Name: SEARCH DATA TEST

Pre-Condition: N/A

S.N	Test Case	Test Data	Expected Result	Actual Result	Remarks
1.	Search by ID from drop down menu.	Using ID to search from Database	ID-wise Search list	ID-wise Search list	PASS
2.	Search by name from drop down menu.	Using name to search from Database	Name-wise Search list	Name-wise Search list	PASS
3.	Search by contact from drop down menu.	Using contact to search from Database	Contact-wise Search list	Contact-wise Search list	PASS

CASE 1:

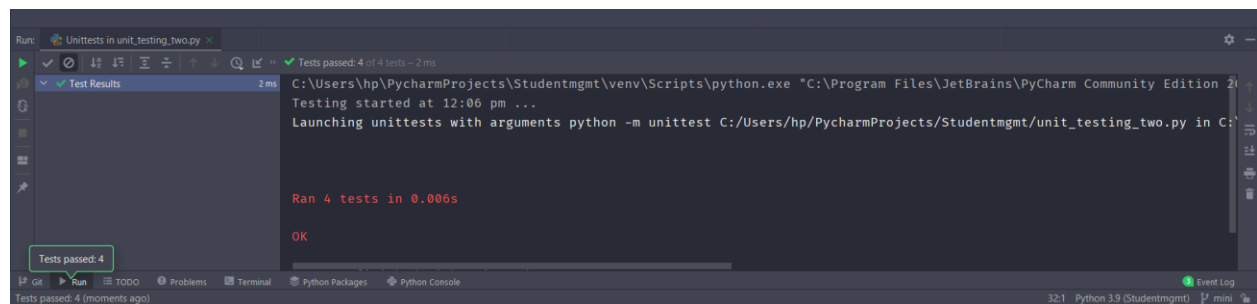CASE 2:

CASE 3:

Unit Testing:

```python
import unittest
import sqlite3
import os


class TestConnection(unittest.TestCase):
    def test_database_readable(self):
        self.assertTrue(os.access("employee.db", os.R_OK))

    def test_create_database(self):
        conn = sqlite3.connect("employee.db")
        cursor = conn.cursor()
        cursor.execute("CREATE TABLE IF NOT EXISTS STUD_REGISTRATION (STU_ID text, STU_NAME text, STU_EMAIL text,STU_DOB
        conn.commit()
        conn.close()

    def test_update_database(self):
        conn = sqlite3.connect("employee.db")
        cursor = conn.cursor()
        cursor.execute(
            f'UPDATE STUD_REGISTRATION SET STU_ID=1 WHERE STU_ID = ?', [0])
        conn.commit()
        conn.close()

    def test_connect_database(self):
        conn = sqlite3.connect("employee.db")
        conn.close()
```
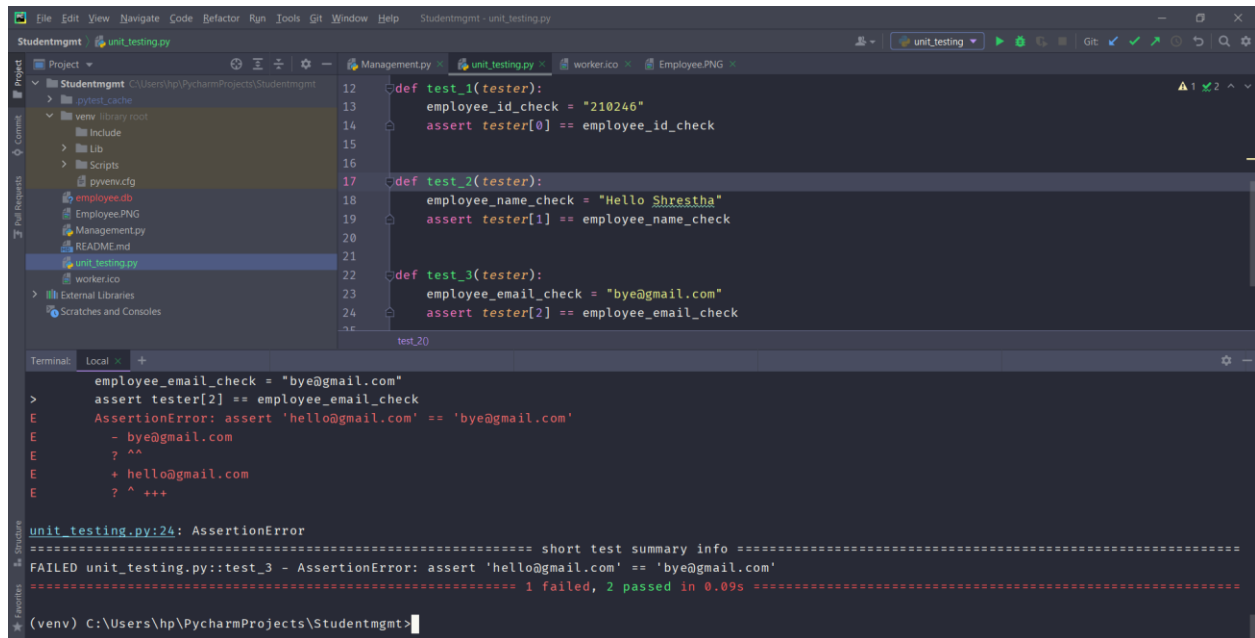
Py-testing: