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| **Test**  **Case #** | **Purpose of Test case** | **Input Data** | **Output Data** |
| 1 | To test the add Button for GUI payroll processing. We will use print Button to check the result if the employee is added or not. | **Case-1:**  “Doe, Jane “ ”CS”  “7/1/2020”  “Part-Time”  “45.9”  **Case-2:**  “Doe,Jane”  “ECE”  “1/1/2005”  “Full-Time”  “85000”  **Case-3:**  “Doe,Jane”  “IT”  “2/28/2012”  “Management” “85000”  “Manager” | **Case-1: ­**  “Employee Added”  Using Print to verify:  Doe,Jane::CS::7/1/2020::Payment $0.00::PART TIME::Hourly Rate $45.90::Hours worked this period: 0  **Case-2:**  “Employee Added”  Doe,Jane::CS::7/1/2020::Payment $0.00::PART TIME::Hourly Rate $45.90::Hours worked this period: 0  Doe,Jane::ECE::1/1/2005::Payment $0.00::FULL TIME::Annual Salary $85,000.00  **Case-3:**  “Employee Added”  Doe,Jane::CS::7/1/2020::Payment $0.00::PART TIME::Hourly Rate $45.90::Hours worked this period: 0  Doe,Jane::ECE::1/1/2005::Payment $0.00::FULL TIME::Annual Salary $85,000.00  Doe,Jane::IT::2/28/2012::Payment $0.00::FULL TIME::Annual Salary $85,000.00::Manager Compensation $192.31 |
| 2 | To check Invalid Entries in the input Fields and print error message. We will check if the GUI takes any invalid entries and enters it in the Employee Database | **Case-1:**  “Doe, Jane “  “7/1/2020”  “Part-Time”  “45.9”  **Case-2:**  “Doe, Jane “  “CS”  “7/1/2020”  “Full-Time”  Case-3:  “Doe, Jane “  ”CS”  “7/1/2020”  “Part-Time”  **Case-4:**  “Doe,Jane”  “IT”  “2/28/2012”  “Management” “85000”  **Case-5:**  “Doe,Jane”  “IT”  “3/28/2033”  “Management” “85000”  “Manager”  **Case-6:**  “Doe, Jane “  ”CS”  “7/1/2020”  “Part-Time”  “-45.9”  **Case-7:**  “Doe,Jane”  “ECE”  “1/1/2005”  “Full-Time”  “-85000” | **Case:1** Select a department.  **Case-2**: Enter salary  **Case-3:** Enter pay rate  **Case-4**: Select a management role.  **Case-5:** Select a valid hiring date.  **Case-6:** Pay rate cannot be negative  **Case-7**: Salary cannot be negative |
| 3 | Checking GUI functionality with Empty Employee Database.  We will test Functionality of functions like calculate payment, print, set hours etc. | **Case-1:**  Click Calculate Payment button.  **Case-2:**  Click Print All Button | **Case-1:** Employee database empty.  **Case-2:** Employee database empty. |
| 4 | Testing Remove Functionality For GUI and calling Print to make sure Employee Does not exist in database after removing. We will first add employee for some test cases. | **Case-1:**  Adding  “Doe, Jane “  ”CS”  “7/1/2020”  “Part-Time”  “45.9”  Removing  “Doe, Jane “  ”CS”  “7/1/2020”  “Part-Time”  **Case-2:**  Adding  “Doe, Jane “  ”CS”  “7/1/2020”  “Part-Time”  “45.9”  Removing  “Doe, Jane “  ”IT”  “7/7/2020”  “Part-Time”  **Case-3:**  Removing  “Doe, Jane “  ”IT”  “7/7/2020”  “Part-Time” | **Case-1:**  Employee Added  Employee Removed  Print ALL- Employee database empty!  **Case-2**:  Employee Added  Employee does not exist  Print ALL –  Doe,Jane::CS::7/1/2020::Payment $0.00::PART TIME::Hourly Rate $45.90::Hours worked this period: 0  **Case-3:**  Employee database empty! |
| 5 | Testing Set Hours button | **Case1:** No input is given.  **Case2:** setHours  “Doe,Jane IT PART Time 3/1/2021 90”  **Case3:** setHours  “Doe Jane, IT,Part Time, 3/1/2021 -10  **Case4: :** setHours  “Doe Jane, IT,Part Time, 3/1/2021 120 | **Case1:** Enter name  **Case2:** Working hours set  **Case3:** Hours worked cannot be negative  **Case4:** Hours worked cannot be greater than 100. |
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