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| --- | --- | --- | --- | --- | --- | --- |
| **Case #** | **Inputs** | **Example:** | **Action** | **Database Status** | **Result** | **Expected** |
| 1 | Empty |  | Add | Any | Display “Enter a name” on output field | Prompt for have some inputs |
| 2 | Any |  | Remove/Set Hour | Empty | Display “Employee database is empty.” | Employee database is empty. |
| 3 | Empty |  | Remove/Set Hour | Non-empty | Display “Enter a name” on output field | Prompt for have some inputs |
| 4 | Any values without name | Department=CS  Date Hired=3/5/2020 | Add | Any | Display “Enter a name” on output field | Prompt for input a name |
| 5 | Any values without name | Department=CS  Date Hired=3/5/2020 | Remove/Set Hour | Non-empty | Display “Enter a name” on output field | Prompt for input a name |
| 6 | Any values with name & without choose a department | Name=anasd asd  Date Hired=3/5/2020 | Add | Any | Display “Select a department” on output field | Prompt for Select a department |
| 7 | Any values with name & without choose a department | Name=anasd asd  Date Hired=3/5/2020 | Remove/Set Hour | Non-empty | Display “Select a department” on output field | Prompt for Select a department |
| 8 | Any values with name & with department & without date hired/invalid date | Name=anasd asd  Department=CS | Add | Any | Display “Select a date” on output field | Prompt for Select a date |
| 9 | Any values with name & with department & without date hired/invalid date | Name=anasd asd  Department=CS  Date Hired=3/5/2025 | Remove/Set Hour | Non-empty | Display “Select a date” on output field | Prompt for Select a date |
| 10 | Any values with name & with department & with date hired | Name=anasd asd  Department=CS  Date Hired=3/5/2020 | Remove | Non-empty | Display “Employee removed” and remove the employee with the same name, department, and date hired if there is such employee in the list; otherwise display “Employee does not exist” | Remove the employee if it exists |
| 11 | Any values with name & with department & with date hired & with a selected type | Name=anasd asd  Department=CS  Date Hired=3/5/2020  Type = “Full Time”  Salary = 1234555 | Add | Any | Display “Rate should be a double number”/“Salary should be a integer number” if the pay rate/salary is invalid; Display “Pay rate cannot be negative”/“Salary cannot be negative” if Rate/Salary is negative; otherwise add the employee and display “Employee added” | Add employee if the input is valid |
| 12 | Any values with name & with department & with date hired & with a selected type | Name=anasd asd  Department=CS  Date Hired=3/5/2020  Type = “Part Time”  Hour = 34 | Set Hour | Non-empty | Display “Should select “Part Time”” if it is Full time; Display “Working hours should be an integer” if the working hour is invalid; Display “Working hours cannot be negative” if Hour is negative; Display “Employee does not exist” if the employ doesn’t in the list; otherwise set working hour successfully and display “Working hours set” | Set working hour correctly if all inputs are valid |
| 13 | Any |  | Payment-Calculate Payment | Empty | Display “Employee database is empty.” | Display “Employee database is empty.” |
| 14 | Any |  | Payment-Calculate Payment | Non-empty | Calculate payment for each employee in the list and display “Calculation of employee payments is done.” | Calculates all employee’s payment |
| 15 | Any |  | Print/Print By Date Hired/Print By Department | Empty | Display "Employee database is empty.” | Display Employee database is empty. |
| 16 | Any |  | Print/Print By Date Hired/Print By Department | Any | Prints salary statements for all employees by current order/date hired order/department order | Prints salary statements for all employees with given order |
| 17 | Any |  | Export | Any | Exports salary statements of all employees into a file using print format | Exports all employees’ salary statement into a file. |
| 18 | Any |  | Import | Any | Add all employees into the company which is not in the employee list, and skip those employees that already in the list. Display “Employee added” if adding a employee; otherwise display “Employee is already in the list” | Adding all employees from the file |
| 19 | Any |  | Clear Inputs/Clear Output Screen | Any | All inputs are cleared/Messages on output window is cleared | All inputs are cleared/Messages on output window is cleared |
| 20 | Any |  | Quit | Any | Quit the program | Quit the program |