ASSUMPTIONS

The user enters valid inputs i.e. he doesn't enter negative values in rate fields or characters in fields which input numeric type values.

Someone runs the payroll everyday in order to update value fields in each employee record and if the present day is equal to payday the amount each employee will get is displayed.

There is only one union and whether a person belongs to the union or not is taken care of by using a flag.

The employees who are paid on an hourly basis can also get commission if a sales receipt is submitted containing their ID.

Timecards are not being submitted for monthly salaried employees.

Service charges are not being submitted for employees who are not a member of the union.

If the employee id given as input is wrong while using any change functionality a message is displayed and no changes take place.

CONDITIONS

Pre Conditions:-
Adding Employee-Right inputs are given depending upon the type of employee i.e.hourly paid or monthly salaried employee and whether the employee belongs to a union or not.The employee id should be unique.

Deleting Employee-The employee whose record has to be deleted should be present in the database i.e. employee id should be valid.

Changing Employee-Valid employee id i.e. id should be present in database.Changes to the values in fields present depending upon the type of employee can be done by providing valid new values.

Adding a Time Card-Time card containing a date and no of hours worked by an employee on that particular day can be added for employees which are paid on an hourly basis.

Adding a Sales Receipt-Sales receipt for any type of employee can be given as input containing amount and employee id which adds value in that employee's pay depending on his commission rate.

Adding Union Charges-Union charges are added for an employee who is a member of the union and this amount is deducted from his next pay.

Run Payroll-Can be run on any date.

Post Conditions:-

Adding Employee-An employee type variable is created which stores the reference to an object depending on the type of employee.Fields in the object are filled with the inputs given and the record is stored in database and.JSON file.

Deleting Employee-The employee record is removed from database and . JSON file is reloaded to reflect the change.

Changing Employee-Message is displayed for invalid id and changes are made for valid id in database and .JSON file is reloaded to reflect the change.

Adding a Time Card-Time card is stored in the given employee's object.

Adding a Sales Receipt-Commission is added to wages field in the given employee object

Adding Union Charges-Charges are added to the given employee's dues field.

Run Payroll-calculates and displays the salary of all the employees who have payday equal to today.