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| --- | --- | --- | --- | --- | --- |
| Sl No | Unit Test Case Name | Description | Input to Provide | Expected Result | Actual Result |
| 1 | Add Employee | Add a new employee to the application | Employee Name, Salary | Balaji is Added Successfully |  |
| 2 | Remove Employee | Remove an existing employee from the application | Employee Name | Bhanu is Removed Successfully |  |
| 3 | Update Employee | Update an employee in the application | Employee Name, Employee Name to be Updated | Bhanu is Updated Successfully to Balaji |  |
| 4 | Calculate Salary | Calculate salary for an employee | Employee Name, Salary | Salary is 1100.0 for employee Bhanu |  |
| 5 | Calculate PF | Calculate PF for an employee | Employee Name, Salary | PF of Bhanu is 100.0 |  |
| 6 | Calculate HIS | Calculate HIS for an employee | Employee Name, Salary | HIS of Bhanu is 50.0 |  |

Employee Service

package assignment20220225;

public class EmployeeService {

public String addEmployee(String empName, double salary) {

System.***out***.println("\*\*\* START addEmployee :: empName: " + empName);

// **TODO** add employee to database

System.***out***.println("\*\*\* END addEmployee :: empName: " + empName);

return empName + " is Added Successfully";

}

public String removeEmployee(String empName) {

return empName + " is Removed Successfully";

}

public String updateEmployee(String empName, String empNameToUpdate) {

return empName + " is Updated Successfully to " + empNameToUpdate;

}

public String calculateSalary(String empName, double salary) {

salary = salary + (salary \* 0.1);

return "Salary is " + salary + " for employee " + empName;

}

public String calculatePf(String empName, double salary) {

double pf = salary \* 0.1;

return "PF of " + empName + " is " + pf;

}

public String calculateHis(String empName, long salary) {

double his = salary \* 0.05;

return "HIS of " + empName + " is " + his;

}

}

Employee Service Test

import static org.junit.Assert.assertEquals;

import org.junit.jupiter.api.Test; //Jupiter is JUnit 5

import assignment20220225.EmployeeService;

public class EmployeeServiceTest {

@Test

public void addEmployeeTest() {

EmployeeService empService = new EmployeeService();

String result = empService.addEmployee("Balaji", 1000);

assertEquals("Balaji is Added Successfully", result);

}

@Test

public void removeEmployeeTest() {

EmployeeService empService = new EmployeeService();

String result = empService.removeEmployee("Bhanu");

assertEquals("Bhanu is Removed Successfully", result);

}

@Test

public void updateEmployeeTest() {

EmployeeService empService = new EmployeeService();

String result = empService.updateEmployee("Bhanu", "Balaji");

assertEquals("Bhanu is Updated Successfully to Balaji", result);

}

@Test

public void calculateSalaryTest() {

EmployeeService empService = new EmployeeService();

String result = empService.calculateSalary("Bhanu", 1000);

assertEquals("Salary is 1100.0 for employee Bhanu", result);

}

@Test

public void calculatePfTest() {

EmployeeService empService = new EmployeeService();

String result = empService.calculatePf("Bhanu", 1000);

assertEquals("PF of Bhanu is 100.0", result);

}

@Test

public void calculateHisTest() {

EmployeeService empService = new EmployeeService();

String result = empService.calculateHis("Bhanu", 1000);

assertEquals("HIS of Bhanu is 50.0", result);

}

}