**Topic: JUnit**

1. **Write test cases for for Loan Sanction which checks the eligibility of an applicant .**

**Create a class LoanCalculator with getLoanEligibilty(), which reads take home salary ,experience and all other inputs and returns eligibility on the basis of below given table .**

|  |  |  |
| --- | --- | --- |
| **Experience** | **Monthly take home** | **Eligible amount** |
| 0-5 | 0-20000 | 0 |
| 5 -10 | 20001-60000 | monthly take home \*15 |
| above 10 | above 60 K | monthly take home \*20 |

1. **Create a class CreditCardOperation . Credit cards usually have a so-called check digit. This is a single digit that that is assigned when the account number is developed and has a special property. One particularly simple mechanism is to assign the last digit of the sum of all the other digits.**

**For example, suppose we have a nine-digit account number (including the check digit). The check digit would be the sum of the eight digits. This digit could be placed any where in the sequence, say the third digit. As a full example, suppose the eight numbers are 12345678. Their sum is 36; thus 6 is the check digit. The account number is therefore 126345678. Write"valid" or "invalid" for the results of the test.Create test cases for above application . Write tests for sanity .**

**Topic : Unit Testing : Parametrized Test ,Theory,Rule,Exception Handling**

**3 . Create a class Stock that holds information about stocks. Stock class attributes are :**

**private String tickerSymbol;**

**private String name;**

**A class named StockList that uses the Stock Objects and provides business methods to test that enables it to maintain the Stock Objects.**

**Methods of StockList class are:**

**public String getStock(String ticker);**

**public void addStock(String ticker, String name);**

**public void updateStock(String ticker, String name);**

**public void deleteStock(String ticker);**

**Write a seprate class StockOperationTest contains test**

**Test1: to add stock**

**Test2: remove stock**

**Test3: display full stock.**

**Test4: update stock**

**Stock sample data: Use appropriate annotation to initialize the stock**

**('ABC', 'ABC Company');**

**('ZZZ', 'Zigby Zebras');**

**('ICS', 'Internet Corp of Slobovia');**

**('DDC', 'Digby Door Company');**

**('ZAP', 'Zelenarinski Ltd.');**

**('JIM', 'Jimco');**

**('SRU', 'Stocks R Us');**

**('SRI', 'Shelves and Radios Inc');**

**('FBC', 'Foo Bar Company');**

**('DDBC', 'Ding Dong Bell Company');**

**('UDE', 'Upn Down Elevator Company');**