**Lab Cycle 3**

1. Write a PL/SQL block to do the following:
2. Read a number and print its multiplication table.
3. Read a number and check whether it is a palindrome or not.
4. Read a number n, and print the first n Fibonacci numbers.
5. Write a PL/SQL block which will accept two numbers and find out their LCM and HCF. The output should be stored in a table called **DEMO\_TAB**.
6. Consider the following relation schemas:

Inventory

|  |  |  |
| --- | --- | --- |
| Product\_ID | Product\_name | Quantity |

Purchase\_Record

|  |  |  |
| --- | --- | --- |
| Product\_ID | Status | Date |

Write a PL/SQL block to read the quantity of a product from inventory and if it is > 0 reduce the quantity by 1 and record the status of purchase of that product as ‘PURCHASED’. Otherwise record the status of purchase of that product as ‘OUT OF STOCK’. While recording the status of a purchase, record the date of transaction.

1. Write a PL/SQL block to handle the following built-in exceptions.
2. Write a PL/SQL block to check whether the quantity of any product in Inventory table of problem 3 is < 0. If so, using an exception display relevant message and update quantity to 0.
3. Consider the following relation schemas:

Emp

|  |  |  |  |
| --- | --- | --- | --- |
| Empid | name | salary | dno |

Del\_History

|  |  |  |
| --- | --- | --- |
| Dno | Rows\_deleted | date |

Write a PL/SQL block to delete records of all employees who belong to a particular department and then record the dno, no of rows deleted and date on which deletion occurred in the Del\_History table.

1. Consider the following relation schemas:

Bank\_Main

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Acc\_no | Name | Address | Acc-type | Curr\_balance |

Bank\_Trans

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Acc\_no | Tr\_type | Tr\_date | Tr\_amt | Upd\_flag |

Where acc\_type is S – savings C- current

Tr\_type is D – deposit W – withdrawal

Write a PL/SQL block to update master table’s (i.e., Bank\_Main) curr\_balance field with transaction details from transaction file (i.e., Bank\_Trans) and also change the status of the Upd\_flag field of transaction table to ‘Y’ once the updation is complete.