**Test on Linux & SQL (Revision Test)**

Q.1 Create a file on the Desktop as products.txt. Store 5 product details like ProductId, ProductName, Cost,Quantity in this file. Use awk command to perform the following tasks :

1) Print all records

2) Print productName with Quantity

3) print record 3 to record 5 using awk

Q.2 Execute the following commands :

1) grep

2) sed

3) find

4) wc -l

5) chmod

Q.3 Create a shell script program which calculates the factorial of a number.

Q.4 Create a table customer in which fields are : customerId (PrimaryKey) ,CustmorName (Not Null), CustomerType ('Regular' as a Default Constraint).

Create another table Country in which fields are : CId (Foreign key), CountryName .

Join two tables using Inner Join

Q.5 Create a table Result as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| StudentRoll(PrimaryKey) | Student Name | Percentage | Grade |
| 101 | Amit | 78 | C |
| 102 | Anil | 61 | D |
| 103 | Suresh | 92 | A |
| 104 | Mayank | 85 | B |
| 105 | Rahul | 72 | C |

1) Find the record of the student who got Grade A.

2) Arrange all records in Descending order of percentage.

3) Find the no of candidates who got Grade C.

4) Find the average percentage from the table.

5) Find the name of the students whose name starts with A.