a.    **Case Study Objective** ->   Customer order processing and related details

b.   **Prerequisite knowledge required** – Scala programming, Core Java experience.

Reference lInks : <http://www.scala-lang.org/documentation>/.

c.  **Description about the dataset** –:

CSV content is present in /src/main/resources/CustomerOrders.csv.

Customer specific details will be provided in CSV format mentioned below –

|  |
| --- |
| **FirstName,LastName,EmailAddress,ProductName,Price,Quantity,Country**  "Harit","Dhiman","harit.dhiman@wipro.com",iphone,1000,1,USA  "Harit","Dhiman","harit.dhiman@wipro.com",iMac,600,2,USA  "Harit","Dhiman","harit.dhiman@wipro.com",iwatch,800,3,USA  "Amit","Misra","amit.misra@wipro.com",iMac,600,3,India  "Amit","Misra","amit.misra@wipro.com",iphone,1000,2,India  "Sunita","Rao","sunita.rao@wipro.com",iphone,1000,3,UK  "Sunita","Rao","sunita.rao@wipro.com",iwatch,800,2,UK  "Prakash","P","prakash.p@wipro.com",iphone,1000,3,India  "Prakash","P","prakash.p@wipro.com",itunes,200,5,India |

d**.  Problem statement** ->

* Read the CSV file with above content using Scala code.
* Perform some analytical computation on the read data like –
  + Group all products and number of items sold. Example once above CSV is read then expected output is –
    - iphone -> 9, itunes -> 5, iMac -> 5, iwatch -> 5
  + Group all products by total revenue generated. Example for iphone total revenue generated is 9000 (Price\*Quantity).
  + Group total revenue generated by country. Example when above data Is read UK have generated revenue of 800\*2 + 1000\*3 = 4600 (Price\*Quantity for a given country).
  + Group revenue generated by customer. Example revenue generated by Harit Dhiman is – 1000\*1 + 600\*2 + 800\*3 = 1000+1200+2400 = 4600
* User should write Scala Unit test cases to test this functionality.