**Exercise 1 :** *Consider user has N eggs. Then display the no of eggs in gross (144 eggs make one gross) and no of eggs in dozen (12 eggs make one dozen) and the no of eggs that is left out remaining.*

*The total no of eggs can be got as input through user. The program should display*

*how many gross, how many dozen, and how many left over eggs the user has.*

**Exercise 2 :***Create a class called Student with the following details: RollNo, StudName, MarksInEng,*

*MarksInMaths and MarksInScience.RollNo should be automatically generatedwhenever a newstudent is added.*

*Create a class to create collection of students and write separate method for each of the following tasks and invoke the same.*

1. *To display the entire roll no and the name of the students in the class in the ascending order of roll no.*
2. *To display the roll no and the name of the student who has got the highest percentage.*
3. *To display the roll no and the name of the student who scored highest mark*

*In mathematics.*

1. *To display the roll no and the name of the student in the ascending order of the total marks in mathematics and science alone.*
2. *To display the roll no, name, total marks, percentage and rank of all the students in the descending order of rank.*

**Sorting Algos :** Bucket Sort and Shell Sort

SCJP Kathy Sierra (Reading)