

DAILY ASSESSMENT REPORT

Date:	16 June 2020	Name:	Gagan M K
Course:	Statistical Learning	USN:	4AL17EC032
Topic:	<ul style="list-style-type: none"> • Case Study on statistics & probability theory • Solution for case study • Webinar on "An Overview of Avionics in Electronics Industry" 	Semester & Section:	6th sem & 'A' sec
GitHub Repository:	Alvas-education-foundation/Gagan-Git		

FORENOON SESSION DETAILS

Image of session

[←](#) [→](#) [olympus.greatlearning.in/courses/12436/pages/solution-for-case-study?module_item_id=527617](#)

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Content

« Solution for case study »

Learning Videos ^

- ▶ Agenda ✓
- ▶ Case study on statistics and Probability Theory ✓
- ▶ **Solution for case study ✓**
- ▶ Introduction to Probability
- ▶ Rules for Probability calculation
- ▶ Bayes Theorem
- ▶ Normal Distribution

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Report – Report can be typed or hand written for up to two pages.

Case Study:

National Health Care Association

(Adapted from Anderson, Sweeney, and Williams for Classroom Discussion)

The National Health Care Association is concerned about the shortage of nurses the health care profession is projecting for the future. To learn the current degree of job satisfaction among nurses, the association has sponsored a study of hospital nurses throughout the country. As part of this study, a sample of 50 nurses was asked to indicate their degree of satisfaction in their work, their pay and their opportunities for promotion. Each of the three aspects of satisfaction was measured on a scale from 0 to 100, with larger values indicating higher degrees of satisfaction. The data collected also showed the type of hospital employing the nurses. The types of hospitals were private (P), Veterans Administration (VA) and University (U). The complete data set is on the file named "Health.csv".

How do you make insights or wisdom out of this data set? What are the insights?

- 1) What is the mode for work?
- 2) Which of the three attributes has the highest mean satisfactory score? lowest mean satisfaction score?
- 3) Find out the coefficient of variation for work, pay, and promotion
- 4) In the histogram for Promotion, which class has the highest concentration?
- 5) Is the shape of box plot for Work is skewed? If so, which direction?
- 6) How many points are outliers in Promotion Box Plot?
- 7) If All the Box plots for Work are drawn for all the hospitals, which hospital type has the best median value?
- 8) If box plots for Work, Pay, Promotion are drawn in the same space, how many outliers are there for promotion, and Pay?

- For the above Case study questions, Answers were discussed as shown below.


```
10 library(lattice)
11 histogram(~Work|factor(Hospital))
12 mean(Work)
13 sd(Work)
14 Mean=c(mean(Work),mean(Pay),mean(Promotion))
15 data.frame(Mean,row.names=c("Work","Pay","Promotion"))
16 Sigma=c(sd(Work),sd(Pay),sd(Promotion))
17 CV=Sigma/Mean
18 data.frame(Mean,Sigma,CV,row.names=c("Work","Pay","Promotion"))
19 hist(Promotion)
20 boxplot(work,horiz
```






horizontal =

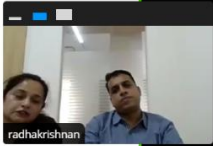
Attended a Webinar on **"An Overview of Avionics in Electronics Industry"** conducted by **"Mr. Radhakrishnan M"**. Organized by Department of Electronics and Communication Engineering of AIET

You are viewing radhakrishnan's screen View Options

The Motivators



 MP Sastri Director (Technical)	 PJB Noble Director (Commercial)	 V Jalaramaiah Associate VP	 T Satyanarayana VP (Systems)	 Kantha Rao VP (Technology Solutions)
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Certificate:

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
MOODBIDRI.
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.



Certificate

OF PARTICIPATION

THIS IS TO CERTIFY THAT

Gagan M K

from Alvas Institute of Engineering and Technology has participated in the webinar on **"An Overview of Avionics in Electronics Industry"** held on **16 JUNE 2020** as part of the webinar series on **"Future Ahead for Electronics Engineers"**

 Mr. Radhakrishnan M Marketing Head Park Controls and Communication Pvt. Ltd.	 Dr. D V Manjunatha Professor and Head Dept. of ECE, AIET	 Dr. Peter Fernandes Principal AIET
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Date:	16 June 2020	Name:	Gagan M K
Course:	Java Tutorial for Complete Beginners	USN:	4AL17EC032
Topic:	<ul style="list-style-type: none"> Natural Ordering Queues Using Iterators Implementing Iterable Deciding Which Collection to Use Complex Data Structures 	Semester & Section:	6 th sem & 'A' sec

AFTERNOON SESSION DETAILS

Image of session:

The screenshot shows a Udemy video player interface. The video title is "Java Tutorial for Complete Beginners". The main content area displays a code editor with the following Java code:

```
public class App {
    public static String[] vehicles = {
        "ambulance", "helicopter", "lifeguard"
    };

    public static String[] drivers = {
        ("Fred", "Sam", "Peter"),
        ("Sam", "Michael", "Sam", "Fred"),
        ("Peter", "Mary", "Sam"),
    };

    public static void main(String[] args) {
    }
}
```

The right sidebar shows the "Course content" list with the following sections:

- 63. Implementing Iterable (19min)
- 64. Deciding Which Collection to Use (14min)
- 65. Complex Data Structures (22min)
- Section 4: Appendix (0/4 | 1hr 5min)
- Section 5: What's New In Java 8? (0/1 | 32min)
- Section 6: Tests (0/1 | 1min)
- Section 7: More ... (0/1 | 1min)
- Section 8: Source Code (0/1 | 1min)

The bottom of the player shows "About this course" with the text "Learn to program using the Java programming language".

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Java:

- Natural Ordering was learnt in Java.
- Example programs using Queues were practiced in Java.
- Learnt how to use Iterators in Java Programming language.
- Also learnt how to implement Iterable in Java.
- Deciding Which Collection to Use in Java.
- Complex Data Structures was seen with an example.

```
package one;
import java.util.Arrays;
import java.util.Comparator;
import java.util.List;

public class naturalordering {
    public static void main(String... args)
    {

        List<String> stringList
            = Arrays.asList("Bheem", "Raju",
                           "Jaggu", "Chutki");

        System.out.println("Before sorting:");
        stringList.forEach(System.out::println);

        stringList.sort(Comparator.naturalOrder());
        System.out.println("\nAfter sorting:");
        stringList.forEach(System.out::println);
    }
}
```

- Example for Iterators.

```
package one;
import java.io.*;
import java.util.*;
class iterator {
    public static void main(String[] args)
    {
        ArrayList<String> list = new ArrayList<String>();

        list.add("H");
        list.add("A");
        list.add("H");
        list.add("A");
        list.add("H");

        // ListIterator to traverse the list
        ListIterator iterator = list.listIterator();

        // Traversing the list in forward direction
        System.out.println("Displaying list elements in forward direction : ");

        while (iterator.hasNext())
            System.out.print(iterator.next() + " ");

        System.out.println();

        // Traversing the list in backward direction
        System.out.println("Displaying list elements in backward direction : ");

        while (iterator.hasPrevious())
            System.out.print(iterator.previous() + " ");

        System.out.println();
    }
}
```