

## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	11/06/2020	Name:	Pramod R
Sem & Sec	4 <sup>th</sup> sem B section	USN:	4AL18CS059
<b>Online Test Summary</b>			
Subject	-		
Max. Marks	-	Score	-
<b>Certification Course Summary</b>			
Course	The Data Science Certification Course		
Certificate Provider	Udemy	Duration	60 minutes
<b>Coding Challenges</b>			
<b>Problem Statement:</b> Write a Java Program to Segregate Even and Odd numbers			
<b>Status:</b> Completed			
Uploaded the report in Github		YES	
If yes Repository name		<a href="https://github.com/alvas-education-foundation/Pramod_R">https://github.com/alvas-education-foundation/Pramod_R</a>	
Uploaded the report in slack		YES	

## Certification Course Details: (Attach the snapshot and briefly write the report for the same)

The screenshot shows the Udeity website interface for a course titled "The Data Science Certification Course". The main content area displays the text "Working for a machine" followed by "you might already work for a machine and not know it. Some companies already use machine learning to analyze business processes and make them more efficient". Below this, there are tabs for "Overview", "Q&A", "Notes", and "Announcements". The "About this course" section states: "Start as a complete beginner and learn some of the most essential Machine Learning basics." At the bottom, it lists "By the numbers", "Skill level: All Levels", and "Lectures: 7". On the right side, a "Course content" sidebar lists seven topics, each with a duration of 5 or 6 minutes. The topics are: 1. Basics (6min), 2. Learn Machine Learning From Scratch - Part 1 (6min), 3. Learn Machine Learning From Scratch - Part 2 (5min), 4. Learn Machine Learning From Scratch - Part 3 (6min), 5. Learn Machine Learning From Scratch - Part 4 (5min), 6. Learn Machine Learning From Scratch - Part 5 (6min), and 7. Learn Machine Learning From Scratch - Part 6 (5min). The browser's address bar shows the URL "udemy.com/course/machine-learning-for-absolute-beginners-2020-edition/learn/lecture/19921314#overview". The Windows taskbar at the bottom shows the time as 20:52 on 11-06-2020.

Udeity | The Data Science Certification Course

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Working for a machine

you might already work for a machine and not know it. Some companies already use machine learning to analyze business processes and make them more efficient

Overview | Q&A | Notes | Announcements

**About this course**

Start as a complete beginner and learn some of the most essential Machine Learning basics.

By the numbers | Skill level: All Levels | Lectures: 7

Course content

Section 1: The Data Science Certification Course

7 / 7 | 40min

- 1. Basics (6min)
- 2. Learn Machine Learning From Scratch - Part 1 (6min)
- 3. Learn Machine Learning From Scratch - Part 2 (5min)
- 4. Learn Machine Learning From Scratch - Part 3 (6min)
- 5. Learn Machine Learning From Scratch - Part 4 (5min)
- 6. Learn Machine Learning From Scratch - Part 5 (6min)
- 7. Learn Machine Learning From Scratch - Part 6 (5min)

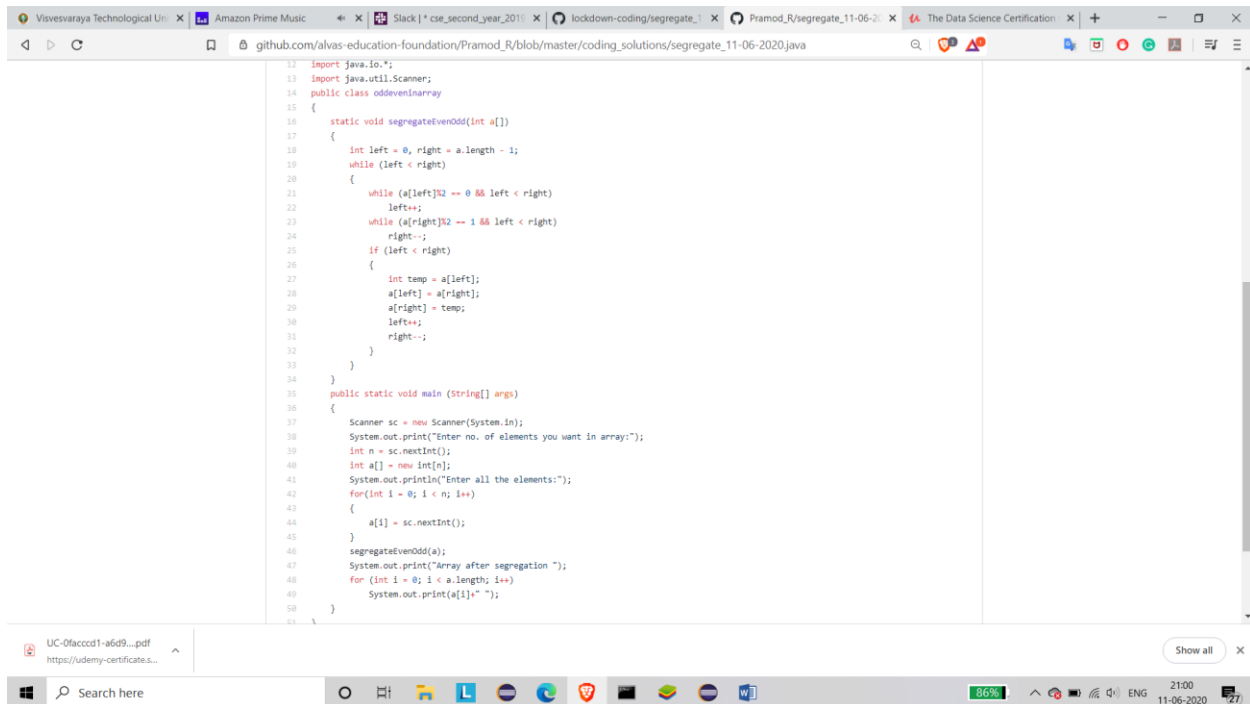
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https://udemy-certificates.s...

Search here

92% | 20:52 | 11-06-2020

The course I have chosen during the lockdown period is Data Science. Since I had previously knew few topics about Data Science I am continuing this course. Since Data Science is gaining a lot interest in the IT Sector I have preferred to choose this course.

## Coding Challenges Details: (Attach the snapshot and briefly write the report for the following)



The screenshot shows a web browser window with a code editor displaying a Java program. The code defines a class `oddevenarray` with a static method `segregateEvenOdd` that takes an integer array `a` and segregates even and odd numbers. The method uses two pointers, `left` and `right`, to traverse the array and swap elements when necessary. The `main` method uses a `Scanner` to take input from the user, creates an array, and prints the result after segregation.

```
12 import java.io.*;
13 import java.util.Scanner;
14 public class oddevenarray
15 {
16     static void segregateEvenOdd(int a[])
17     {
18         int left = 0, right = a.length - 1;
19         while (left < right)
20         {
21             while (a[left]%2 == 0 && left < right)
22                 left++;
23             while (a[right]%2 == 1 && left < right)
24                 right--;
25             if (left < right)
26             {
27                 int temp = a[left];
28                 a[left] = a[right];
29                 a[right] = temp;
30                 left++;
31                 right--;
32             }
33         }
34     }
35     public static void main (String[] args)
36     {
37         Scanner sc = new Scanner(System.in);
38         System.out.print("Enter no. of elements you want in array:");
39         int n = sc.nextInt();
40         int a[] = new int[n];
41         System.out.println("Enter all the elements:");
42         for(int i = 0; i < n; i++)
43         {
44             a[i] = sc.nextInt();
45         }
46         segregateEvenOdd(a);
47         System.out.print("Array after segregation ");
48         for (int i = 0; i < a.length; i++)
49             System.out.print(a[i]+" ");
50     }
51 }
```

The question I took to code is:

Given an array A[],

write a function that segregates even and odd numbers.

The functions should put all even numbers first, and then odd numbers.

Example: Input = {12, 34, 45, 9, 8, 90, 3} Output = {12, 34, 8, 90, 45, 9, 3}

Algorithm: segregateEvenOdd()

1. Initialize two index variables left and right: left = 0, right = size - 1
2. Keep incrementing left index until we see an odd number.
3. Keep decrementing right index until we see an even number.
4. If left < right then swap arr[left] and arr[right]

**Solution:** The above snapshot is the code which I have uploaded in my Github repository