Technical Task

1) **Write a program to remove all numbers and replaces all special characters with a space from a string**

   Code:

```
import java.util.*;

public class Main{
   public static void main(String[] args){
      Scanner sc=new Scanner(System.in);
      String s=sc.nextLine();
      String nums=s.replaceAll("[0-9]", " ");
      String result=nums.replaceAll("[^a-zA-Z]", " ");
      System.out.println(result);
   }
}
```

2) **Write a program to convert all odd length string as, first half of the string to lowercase and second half of string to lowercase.**

   Actual string: transformed string
   oriJenBeliret - ORIJENbeliret
   orionmeo - orionmeo

   Code:

```
import java.util.*;
public class Main {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String s=sc.nextLine();
        String result = convertString(s);
        System.out.println(result);
    }

public static String convertString(String input) {
    int length = input.length();
    int mid = length / 2;
```

```
if (length % 2 != 0) {
    String firstHalf = input.substring(0, mid).toUpperCase();
    String secondHalf = input.substring(mid).toLowerCase();
    return firstHalf + secondHalf;
   } else {
    return input;
        }}}
```

3) Write a program to find second and fourth greatest number in an list of numbers (if length of list is less than 4, should give error message in response)

Code:

```
import java.util.*;
public class Main {
   public static void main(String[] args) {
      Scanner sc=new Scanner(System.in);
      int n=sc.nextInt();
      int a[]=new int[n];
      for(int i=0;i<n;i++){
         a[i]=sc.nextInt();
      }

      if (a.length < 4) {
         System.out.println("Error: The list should have at least 4 numbers.");
      } else {
         int secondGreatest = findNthGreatest(a, 2);
         int fourthGreatest = findNthGreatest(a, 4);

         System.out.println("List of numbers: " + Arrays.toString(a));
         System.out.println("Second greatest number: " + secondGreatest);
         System.out.println("Fourth greatest number: " + fourthGreatest);
      }
```

```
    }

    public static int findNthGreatest(int[] a, int n) {
        Arrays.sort(a);
        return a[a.length - n];
    }
}
```

4)Write a html page code with css, which can convert string date in certain format into given format using javascript.

For example:
Box: inputDate - 12/11/2012
Box: inputFormat - DD/MM/YYYY
Box: expectedFormat - MM/YYYY/DD
Output Button [on click] the output should be - 11/2012/12 and displayed in a new Box. Also ensure that the entire page is precisely centered both horizontally and vertically on the web page. You can use any styles or color schemes of your choice.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
            background-color: #f4f4f4;
        }

        .container {
            text-align: center;
            padding: 20px;
            border: 1px solid #ccc;
            border-radius: 8px;
            background-color: #fff;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
```

```
        input {
            margin-bottom: 10px;
            padding: 8px;
        }

        button {
            padding: 10px;
            background-color: #4caf50;
            color: #fff;
            border: none;
            border-radius: 4px;
            cursor: pointer;
        }

        #outputBox {
            margin-top: 20px;
            padding: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
    </style>
    <title>Date Converter</title>
</head>
<body>

<div class="container">
    <label for="inputDate">Input Date:</label>
    <input type="text" id="inputDate" placeholder="Enter date (e.g., 12/11/2012)">

    <label for="inputFormat">Input Format:</label>
    <input type="text" id="inputFormat" placeholder="Enter format (e.g.,
DD/MM/YYYY)">

    <label for="expectedFormat">Expected Format:</label>
    <input type="text" id="expectedFormat" placeholder="Enter format (e.g.,
MM/YYYY/DD)">

    <button onclick="convertDate()">Convert</button>

    <div id="outputBox"></div>
</div>

<script>
    function convertDate() {
        var inputDate = document.getElementById('inputDate').value;
```

```
        var inputFormat = document.getElementById('inputFormat').value;
        var expectedFormat = document.getElementById('expectedFormat').value;

        var formattedDate = formatDate(inputDate, inputFormat, expectedFormat);

        document.getElementById('outputBox').innerText = 'Formatted Date: ' +
formattedDate;
    }

    function formatDate(inputDate, inputFormat, expectedFormat) {
        var parts = inputDate.split('/');
        var formattedDate = expectedFormat
            .replace('DD', parts[0])
            .replace('MM', parts[1])
            .replace('YYYY', parts[2]);

        return formattedDate;
    }
</script>

</body>
</html>
```

5) Write a html/css/javascript code to create a frontend page, to show electronic device information.

The page will contain, multiple clickable text fields with name of devices (Mobile Phone, Laptop, Desktop,...)

On click to any of the text, it opens a new tab/iframe to show description (any random details) of the selected device. Can use any react/angular/css to make the page look good visually.

Code:

Electronics.html

```
<html>
    <head>
        <title>Electronics</title>
        <style type="text/css">
            tr{
                text-align: left;
            }
            body{
```

```
            background: linear-gradient(rgba(244, 4, 244, 0.5),rgba(251, 114, 194, 0.927),rgb(125, 226, 223));
        }
    </style>
  </head>
</html>
<body>
  <center>
    <h1>Electronics</h1>
    <a href="1.Mobile.html">1.Mobile</a><br>
    <a href="2.Laptop.html">2.Laptop</a><br>
    <a href="3.Tablet.html">3.Tablet</a><br>
    <a href="4.SmartTV.html">4.Smart TV</a><br>
    <a href="5.Smartwatch.html">5.Smart Watch</a><br>
  </center>
</body>
```

1.Mobile.html

```
<html>
  <head>
    <p>
      1.Mobile: Handheld device with a touchscreen interface, capable of making calls, sending texts, and running various applications.
    </p>
  </head>
</html>
```

2.Laptop.html

```
<html>
  <head>
    <p>
```

2.Laptop: Portable computer with a keyboard and screen, suitable for various tasks such as work, browsing, and entertainment.

</head>

</html>

3.Tablet.html

<html>

<head>

3.Tablet: Compact, touchscreen device larger than a smartphone, used for browsing, media consumption, and productivity.

</head>

</html>

4.SmartTV.html

<html>

<head>

4.Smart TV: Television with internet connectivity, allowing access to

streaming services, apps, and online content.

</head>

</html>

5.Smartwatch.html

<html>

<head>

5.Smartwatch: Wrist-worn device that connects to a smartphone, providing notifications, fitness tracking, and other functionalities.

</head>

</html>