CS261 ASSIGNMENT 10

NAME:

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ROLL NO. :

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SECTION:

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1. **Create a thread to calculate the sum of elements in the array. For every traversal let the thread suspend for 100ms – sleep(). Use exceptional handling to handle the interruptions if they occur.**

***Code***

import java.util.\*;

import java.lang.\*;

public class Main{

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter the size of array : ");

        int n = sc.nextInt();

        System.out.println();

        int[] arr = new int[n];

        System.out.println("Enter the array elements separated by spaces:");

        for(int i = 0; i < n; i++){

            arr[i] = sc.nextInt();

        }

        Thread t = new Thread(new ArraySum(arr));

        t.start();

    }

}

class ArraySum implements Runnable {

    private int[] array;

    public ArraySum(int[] arr) {

        this.array = arr;

    }

    public void run() {

        int sum = 0;

        for (int num : array) {

            sum += num;

            try {

                Thread.sleep(100);

            } catch (InterruptedException e) {

                System.out.println("Exception caught");

            }

        }

        System.out.println("Sum of array elements : "+sum);

    }

}

***Output***



