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package exams.exam1.pro2;

import java.util.Scanner;

public class S2Q2_64010009 {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        char[] random_alphabets = getRandomAlphabets(5);
        char[] random_numbers = getRandomNumbers(5);

        System.out.print("Random characters are: ");
        printAlternatingChars(random_alphabets, random_numbers);

        int selection;

        while (true) {

            System.out.print("Select group of characters [1] characters or [2] numerics: ");
            selection = scanner.nextInt();

            if (selection ≥ 1 && selection ≤ 2) break;
            System.out.println("ERROR: invalid choice, try again!");
        }
        scanner.close();

        if (selection == 1) {

            System.out.print("Characters not in the list are: ");
            printExcludeAlphabets(random_alphabets);

        } else {

            System.out.print("Numerics not in the list are: ");
            printExcludeNumbers(random_numbers);

        }

        System.out.println("End of program.");
    }

    public static char[] getRandomNumbers(int amount) {

        char[] random_chars = new char[amount];

        for (int i = 0; i < amount; i++)
            random_chars[i] = (char) ((Math.random() * 10) + '0');

        return random_chars;
    }

    public static char[] getRandomAlphabets(int amount) {

        char[] random_chars = new char[amount];

        for (int i = 0; i < amount; i++)
            random_chars[i] = (char) ((Math.random() * 10) + 'a');

        return random_chars;
    }

    public static void printAlternatingChars(char[] arr_1, char[] arr_2) {

        int order = 0;
        for (int i = 0; i < arr_1.length + arr_1.length; i++) {

            if (i % 2 == 0) System.out.print(arr_1[order] + " ");
            else {

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        System.out.print(arr_2[order] + " ");
        order++;
    }
}
System.out.print("\n");
}

public static void printExcludeAlphabets(char[] exclude_alphabets) {

    char[] include_alphabets = new char[10];
    for (int i = 0; i < 10; i++) include_alphabets[i] = (char) ('a' + i);

    for (char include_alphabet : include_alphabets) {

        boolean is_exclude = true;
        for (char exclude_alphabet : exclude_alphabets) {
            if (include_alphabet == exclude_alphabet) {
                is_exclude = false;
                break;
            }
        }
        if (is_exclude) System.out.print(include_alphabet + " ");
    }

    System.out.print("\n");
}

public static void printExcludeNumbers(char[] exclude_numbers) {

    char[] include_numbers = new char[10];
    for (int i = 0; i < 10; i++) include_numbers[i] = (char) ('0' + i);

    for (char include_number : include_numbers) {

        boolean is_exclude = true;
        for (char exclude_number : exclude_numbers) {
            if (include_number == exclude_number) {
                is_exclude = false;
                break;
            }
        }
        if (is_exclude) System.out.print(include_number + " ");
    }

    System.out.print("\n");
}
}

```