

CAFETERIAPOLL

Code:

```
2 package com.mycompany.cafeteriapoll;
3 import java.util.*;
4 public class CafeteriaPoll {
5
6     public static void main(String[] args) {
7         Scanner input = new Scanner(System.in);
8         int[] responses = new int[40];
9         int[] ratingCount = new int[11];
10        System.out.println("Enter 40 ratings (1 to 10):");
11        for (int i = 0; i < 40; i++) {
12            System.out.print("Rating " + (i + 1) + ": ");
13            int rating = input.nextInt();
14            if (rating >= 1 && rating <= 10) {
15                responses[i] = rating;
16                ratingCount[rating]++;
17            } else {
18                System.out.println("Invalid rating. Please enter a number between 1 and 10.");
19                i--;
20            }
21        }
22        System.out.println("\nSummary of Ratings:");
23        System.out.println("Rating\tCount");
24        for (int i = 1; i <= 10; i++) {
25            System.out.println(i + "\t" + ratingCount[i]);
26        }
27    }
28 }
29 }
```

Output:

Enter 40 ratings (1 to 10):

Rating 1: 3
Rating 2: 2
Rating 3: 5
Rating 4: 6
Rating 5: 8
Rating 6: 2
Rating 7: 4
Rating 8: 2
Rating 9: 6
Rating 10: 3
Rating 11: 8
Rating 12: 5
Rating 13: 10
Rating 14: 10
Rating 15: 4
Rating 16: 7
Rating 17: 3
Rating 18: 2

Rating 36: 8
Rating 37: 7
Rating 38: 6
Rating 39: 5
Rating 40: 4

Summary of Ratings:

Rating	Count
1	1
2	6
3	5
4	5
5	5
6	6
7	4
8	4
9	2
10	2