K.RAMAKRISHNAN
COLLEGE OF ENGINEERING
An Autonomous Institution
Permanently Affiliated to Anna University Chennai, Approved by AICTE New Delhi,
ISO 9001:2015, 14001:2015 certified institution, Accredited by NBA and with A grade by NAAC
Samayapuram, Tiruchirappalli – 621 112, Tamilnadu, India.

APPENDIX

(Coding)

```java
import java.util.Scanner;
import java.util.ArrayList;

class Visitor {
    String name;
    String visitorId;
    String purpose;
    String status;

    Visitor(String name, String visitorId, String purpose, String status) {
        this.name = name;
        this.visitorId = visitorId;
        this.purpose = purpose;
        this.status = status;
    }

    public String toString() {
        return "Name: " + name + ", ID: " + visitorId + ", Purpose: " + purpose + ",
Status: " + status;
    }
}

public class VisitorManagementSystem {
    static ArrayList<Visitor> visitorList = new ArrayList<>();

    public static void main(String[] args) {
```

```java
Scanner scanner = new Scanner(System.in);
while (true) {
    System.out.println("\nVisitor Management System");
    System.out.println("1. Check In Visitor");
    System.out.println("2. Check Out Visitor");
    System.out.println("3. View All Visitors");
    System.out.println("4. Exit");
    System.out.print("Choose an option: ");
    int choice = scanner.nextInt();
    scanner.nextLine();

    switch (choice) {
        case 1:
            checkInVisitor(scanner);
            break;
        case 2:
            checkOutVisitor(scanner);
            break;
        case 3:
            viewAllVisitors();
            break;
        case 4:
            System.out.println("Exiting...");
            scanner.close();
            return;
        default:
            System.out.println("Invalid choice. Please try again.");
    }
```
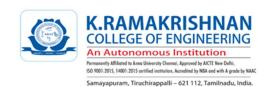
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KR

```java
        }
    }


    private static void checkInVisitor(Scanner scanner) {
        System.out.print("Enter visitor's name: ");
        String name = scanner.nextLine();


System.out.print("Enter visitor ID: ");
        String visitorId = scanner.nextLine();
        System.out.print("Enter purpose of visit: ");
        String purpose = scanner.nextLine();
        Visitor visitor = new Visitor(name, visitorId, purpose, "Checked In");
        visitorList.add(visitor);
        System.out.println("Visitor checked in successfully!");
    }
    private static void checkOutVisitor(Scanner scanner) {
        System.out.print("Enter visitor ID to check out: ");
        String visitorId = scanner.nextLine();
        for (Visitor visitor : visitorList) {
            if (visitor.visitorId.equals(visitorId) && visitor.status.equals("Checked In"))
{
                visitor.status = "Checked Out";
                System.out.println("Visitor checked out successfully!");
                return;
            }
        }
        System.out.println("Visitor not found or already checked out.");
    }
```

```java
private static void viewAllVisitors() {
    if (visitorList.isEmpty()) {
        System.out.println("No visitors recorded.");
    } else {
        for (Visitor visitor : visitorList) {
            System.out.println(visitor);
        }
    }
}
}
```

CHAPTER 4

RESULTS AND DISCUSSION

```
Visitor Management System
1. Check In Visitor
2. Check Out Visitor
3. View All Visitors
4. Exit
Choose an option: 1
Enter visitor's name: Sabari
Enter visitor ID: 123456
Enter purpose of visit: Interview
Visitor checked in successfully!

Visitor Management System
1. Check In Visitor
2. Check Out Visitor
3. View All Visitors
4. Exit
Choose an option: 2
Enter visitor ID to check out: 123456
Visitor checked out successfully!

Visitor Management System
1. Check In Visitor
2. Check Out Visitor
3. View All Visitors
4. Exit
Choose an option: 3
Name: Sabari, ID: 123456, Purpose: Interview, Status: Checked Out

Visitor Management System
1. Check In Visitor
2. Check Out Visitor
3. View All Visitors
4. Exit
Choose an option: 4
Exiting...
```