Experiment 1

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Semester: 6th	**Date of Performance:** 11-01-2025
Subject Name: Project Based Learning in Java	**Subject Code:** 22CSH-359

1.Aim:
Create an application to save employee information using arrays.

2.Objective:
The primary objective of Employee Management System is to contain information about employees of an organization, develop a small java application ,which accepts employee id from the command prompt and displays the details.

3.Implementation/Code:

```java
import java.util.Scanner;

public class Main {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of employees you want to store info for: ");
        int numberOfEmployees = scanner.nextInt();

        String[] employeeNames = new String[numberOfEmployees];
        int[] employeeAges = new int[numberOfEmployees];
        double[] employeeSalaries = new double[numberOfEmployees];
        String[] employeeDepartments = new String[numberOfEmployees];
```

```java
        for (int i = 0; i < numberOfEmployees; i++) {
            System.out.println("\n--- Enter details for employee " + (i + 1) + " ---");

            System.out.print("Enter name: ");
            scanner.nextLine();
            employeeNames[i] = scanner.nextLine();

            System.out.print("Enter age: ");
            employeeAges[i] = scanner.nextInt();

            System.out.print("Enter salary: ");
            employeeSalaries[i] = scanner.nextDouble();

            System.out.print("Enter department: ");
            scanner.nextLine();
            employeeDepartments[i] = scanner.nextLine();
        }

        System.out.println("\n===== Employee Information =====");
        for (int i = 0; i < numberOfEmployees; i++) {
            System.out.println("\nEmployee " + (i + 1));
            System.out.println("Name: " + employeeNames[i]);
            System.out.println("Age: " + employeeAges[i]);
            System.out.println("Salary: ₹" + employeeSalaries[i]);
            System.out.println("Department: " + employeeDepartments[i]);
        }

        scanner.close();
    }
}
```

4.Output

```
--- Enter details for employee 1 ---
Enter name: Om
Enter age: 22
Enter salary: 3000
Enter department: Sales

--- Enter details for employee 2 ---
Enter name: Vamshi
Sweaper
Enter age: 21
Enter salary: 3000
Enter department: Cleaning

===== Employee Information =====

Employee 1
Name: Om
Age: 22
Salary: ₹3000.0
Department: Sales

Employee 2
Name: Sweaper
Age: 21
Salary: ₹3000.0
Department: Cleaning
```

5. Learning Outcome

- Learnt about use of arrays in java.

- Learnt how to create and use classes (Employee) to encapsulate data.

- Developed logical flows for adding, displaying, and exiting operations in a program.

- Handled edge cases like exceeding array limits or no employees added.