Experiment-1.1

Student Name: Manish Singh Barolia **UID: 21BCS5712**

Branch: BE-CSE **Section/Group: NTPP_CC_601-A**

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Subject Name: Project-Based Learning in JAVA

Subject Code: 21CSH-319

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

Objective:

1. To learn about arrays in Java.
2. To learn about the usage of loops and switch statements.

Input/Apparatus Used:

Java Online Compiler

Code:

```
import java.util.Scanner;

public class EmployeeInformation{
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      final int MAX_EMPLOYEES = 100;

      String[] names = new String[MAX_EMPLOYEES];
      int[] ages = new int[MAX_EMPLOYEES];
      String[] positions = new String[MAX_EMPLOYEES];

      int employeeCount = 0;
```

```
        while (true) {
            System.out.println("\nEmployee Information");
            System.out.println("1. Add Employee");
            System.out.println("2. View Employees");
            System.out.println("3. Exit");

            System.out.print("Enter your choice (1/2/3): ");
            int choice = scanner.nextInt();

            switch (choice) {
                case 1:
                    if (employeeCount < MAX_EMPLOYEES) {
                        System.out.print("Enter employee name: ");
                        names[employeeCount] = scanner.next();
                        System.out.print("Enter employee age: ");
                        ages[employeeCount] = scanner.nextInt();
                        System.out.print("Enter employee position: ");
                        positions[employeeCount] = scanner.next();
                        employeeCount++;
                        System.out.println("Employee added successfully!");
                    } else {
                        System.out.println("Maximum number of employees reached!");
                    }
                    break;
                case 2:
                    if (employeeCount == 0) {
                        System.out.println("No employees to display.");
                    } else {
                        System.out.println("\nEmployee Information:");
                        for (int i = 0; i < employeeCount; i++) {
                            System.out.println("Name: " + names[i] + ", Age: " + ages[i] + ", Position: " +
positions[i]);
                        }
                    }
                    break;
                case 3:
                    System.out.println("Exiting program. Goodbye!");
```

```
                scanner.close();
                System.exit(0);
            default:
                System.out.println("Invalid choice. Please enter 1, 2, or 3.");
        }
    }
  }
}
```

Result/Output:

```
java -cp /tmp/GVMz9H3MBd EmployeeInformation
Employee Information
1. Add Employee
2. View Employees3. Exit
Enter your choice (1/2/3): 1
Enter employee name: Manish
Enter employee age: 21
Enter employee position: CEO
Employee added successfully!

Employee Information
1. Add Employee
2. View Employees
3. ExitEnter your choice (1/2/3): 1
Enter employee name: Neeraj
Enter employee age: 23
Enter employee position: HR
Employee added successfully!

Employee Information
1. Add Employee
2. View Employees
3. Exit
Enter your choice (1/2/3): 2
Employee Information:
Name: Manish, Age: 21, Position: CEO
Name: Neeraj, Age: 23, Position: HR
Employee Information
1. Add Employee
2. View Employees
3. Exit
Enter your choice (1/2/3):
```