

Experiment - 4.2

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Aim: Write a Java program to implement an ArrayList that stores employee details (ID, Name, and Salary). Allow users to add, update, remove, and search employees.

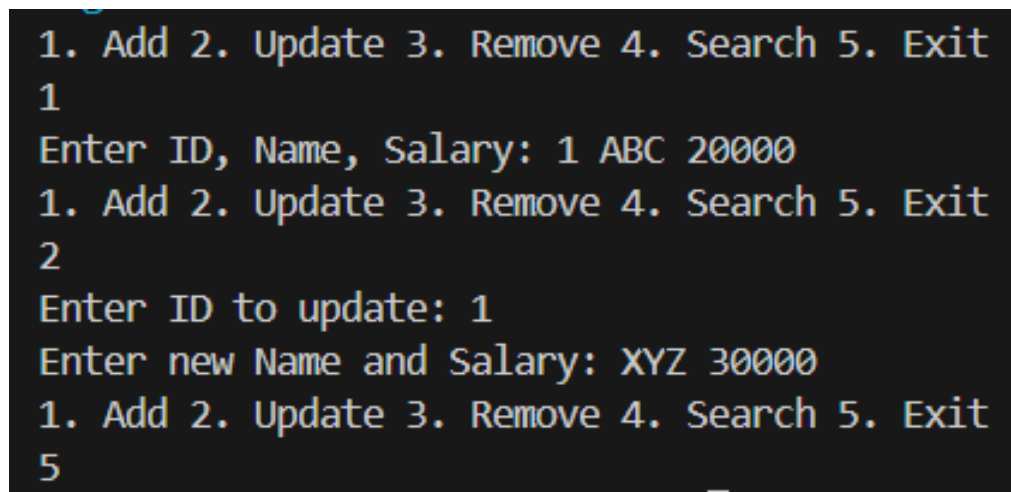
```
Code: import java.util.ArrayList;
import java.util.Scanner;
class Employee {
    int id;
    String name;
    double salary;
    Employee(int id, String name, double salary) {
        this.id = id;
        this.name = name;
        this.salary = salary;
    }
    public String toString() {
        return "ID: " + id + ", Name: " + name + ", Salary: " + salary;
    }
}
public class EmployeeManagement {
    public static void main(String[] args) {
        ArrayList<Employee> employees = new ArrayList<>();
        Scanner sc = new Scanner(System.in);
        while (true) {
            System.out.println("1. Add 2. Update 3. Remove 4. Search 5. Exit");
            int choice = sc.nextInt();
            switch (choice) {
                case 1:
                    System.out.print("Enter ID, Name, Salary: ");
                    employees.add(new Employee(sc.nextInt(), sc.next(), sc.nextDouble()));
                    break;
                case 2:
                    System.out.print("Enter ID to update: ");
                    int id = sc.nextInt();
                    for (Employee e : employees) {
                        if (e.id == id) {
                            System.out.print("Enter new Name and Salary: ");
                            e.name = sc.next();
                            e.salary = sc.nextDouble();
                        }
                    }
                    break;
                case 3:
```

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        System.out.print("Enter ID to remove: ");
        int removeId = sc.nextInt();
        employees.removeIf(e -> e.id == removeId);
        break;
    case 4:
        System.out.print("Enter ID to search: ");
        int searchId = sc.nextInt();
        for (Employee e : employees) {
            if (e.id == searchId) {
                System.out.println(e);
            }
        }
        break;
    case 5:
        sc.close();
        return;
    }
}
}
}

```

OUTPUT



```

1. Add 2. Update 3. Remove 4. Search 5. Exit
1
Enter ID, Name, Salary: 1 ABC 20000
1. Add 2. Update 3. Remove 4. Search 5. Exit
2
Enter ID to update: 1
Enter new Name and Salary: XYZ 30000
1. Add 2. Update 3. Remove 4. Search 5. Exit
5

```