

Java Programming Assignments

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1. Java Program to Implement ArrayList for Employee Details

```
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 class EmployeeDetails {
```

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

```
        Scanner scanner = new Scanner(System.in);
```

```
        ArrayList<Employee> employees = new ArrayList<>();
```

```
        int choice;
```



```
        System.out.print("Enter new Name: ");

        emp.name = scanner.nextLine();

        System.out.print("Enter new Salary: ");

        emp.salary = scanner.nextDouble();

        found = true;

        System.out.println("Employee updated successfully.");

        break;

    }

}

if (!found) {

    System.out.println("Employee not found.");

}

break;
```

case 3:

```
    System.out.print("Enter ID to remove: ");

    int removeld = scanner.nextInt();

    employees.removeIf(emp -> emp.id == removeld);

    System.out.println("Employee removed successfully.");

    break;
```

case 4:

```
    System.out.print("Enter ID to search: ");

    int searchId = scanner.nextInt();

    found = false;

    for (Employee emp : employees) {

        if (emp.id == searchId) {
```

```

        System.out.println("Employee ID: " + emp.id);

        System.out.println("Name: " + emp.name);

        System.out.println("Salary: " + emp.salary);

        found = true;

        break;

    }

}

if (!found) {

    System.out.println("Employee not found.");

}

break;

case 5:

    System.out.println("Exiting...");

    break;

default:

    System.out.println("Invalid choice.");

}

} while (choice != 5);

}

}

```

2. Program to Collect and Store Cards Using Collection Interface

```
import java.util.*;
```

```
class Card {  
    String rank;  
    String suit;  
  
    Card(String rank, String suit) {  
        this.rank = rank;  
        this.suit = suit;  
    }  
  
    @Override  
    public String toString() {  
        return rank + " of " + suit;  
    }  
}
```

```
public class CardCollection {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        ArrayList<Card> cards = new ArrayList<>();  
        cards.add(new Card("Ace", "Hearts"));  
        cards.add(new Card("King", "Spades"));  
        cards.add(new Card("Queen", "Diamonds"));  
        cards.add(new Card("Jack", "Clubs"));  
        cards.add(new Card("10", "Hearts"));  
        cards.add(new Card("9", "Spades"));  
  
        System.out.print("Enter the symbol to search (e.g., Hearts, Spades, etc.):
```

");

String symbol = scanner.nextLine();

System.out.println("\nCards of " + symbol + ":");

for (Card card : cards) {

if (card.suit.equalsIgnoreCase(symbol)) {

System.out.println(card);

}

}

}

}