

Online Java Compiler - Program

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FileHandlerSimulation.java

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Run

```
1- import java.util.Scanner;
2- public class FileHandlerSimulation {
3-     public static void main(String[] args) {
4-         String fileContent = "Hello, this is CODTECH Internship Task 1.";
5-         System.out.println("File written:\n" + fileContent);
6-         System.out.println("\nReading file:");
7-         System.out.println(fileContent);
8-         String modifiedContent = fileContent + "\nFile modified with new content.";
9-         System.out.println("\nFile modified:\n" + modifiedContent);
10-     }
11- }
12-
13-
```

Output

Clear

```
File written:
Hello, this is CODTECH Internship Task 1.

Reading file:
Hello, this is CODTECH Internship Task 1.

File modified:
Hello, this is CODTECH Internship Task 1.
File modified with new content.

=== Code Execution Successful ===
```

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RestApiSimulation.java

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Run

```
1- import java.util.Scanner;
2- public class RestApiSimulation {
3-     public static void main(String[] args) {
4         String jsonResponse = "{ \"city\": \"London\", \"temperature\": 19.32,
           \"weather\": \"Cloudy\" }";
5         System.out.println("Fetching weather data for London...");
6         System.out.println("Received JSON Response:\n" + jsonResponse);
7         String city = "London";
8         double temperature = 19.32;
9         String weather = "Cloudy";
10        System.out.println("\nParsed Weather Data:");
11        System.out.println("City: " + city);
12        System.out.println("Temperature: " + temperature + "°C");
13        System.out.println("Weather: " + weather);
14    }
15 }
16
```

Output

Clear

Fetching weather data for London...
Received JSON Response:
{ "city": "London", "temperature": 19.32, "weather": "Cloudy" }

Parsed Weather Data:
City: London
Temperature: 19.32°C
Weather: Cloudy

=== Code Execution Successful ===

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ChatSimulation.java

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Run

```
1- import java.util.Scanner;
2- public class ChatSimulation {
3-     public static void main(String[] args) {
4-         Scanner sc = new Scanner(System.in);
5-         System.out.println("Simulating Chat Application (Server & Client)");
6-         System.out.print("Client: ");
7-         String clientMsg = sc.nextLine();
8-         System.out.println("Server: " + clientMsg);
9-         System.out.print("Client: ");
10-        clientMsg = sc.nextLine();
11-        System.out.println("Server: " + clientMsg);
12-        sc.close();
13-    }
14- }
15
16
```

Output

Clear

Simulating Chat Application (Server & Client)
Client: Hi Server
Server: Hi Server
Client: How are you?
Server: How are you?

=== Code Execution Successful ===

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RecommendationSystem.java



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Run

Output

Clear

```
1- import java.util.*;
2- public class RecommendationSystem {
3-     public static void main(String[] args) {
4-         Map<String, List<String>> preferences = new HashMap<>();
5-         preferences.put("Ali", Arrays.asList("Laptop", "Phone"));
6-         preferences.put("Sara", Arrays.asList("Phone", "Watch"));
7-         preferences.put("John", Arrays.asList("Laptop", "Tablet"));
8-         String user = "Ali";
9-         List<String> recommended = new ArrayList<>();
10-        for (Map.Entry<String, List<String>> entry : preferences.entrySet()) {
11-            if (!entry.getKey().equals(user)) {
12-                for (String item : entry.getValue()) {
13-                    if (!preferences.get(user).contains(item) && !recommended
14-                        .contains(item)) {
15-                        recommended.add(item);
16-                    }
17-                }
18-            }
19-            System.out.println("Recommendations for " + user + ": " + recommended);
20-        }
21-    }
22- }
```

Recommendations for Ali: [Tablet, Watch]

=== Code Execution Successful ===