



Main.java

Output



```
1 import java.util.HashMap;
2 import java.util.Scanner;
3
4 class Country {
5     private HashMap<String, String>
        countryMap;
6
7     public Country() {
8         countryMap = new HashMap
            <>();
9     }
10
11     public void add(String cname,
        String capname) {
12         countryMap.put(cname
            .toLowerCase(), capname
            );
13     }
14
15     public String search(String
        cname) {
16         if (countryMap.isEmpty()) {
17             return "The map is
                empty";
18         }
19         String capital = countryMap
```

Run



Main.java

Output



```
19      String capital = countryMap
      .get(cname.toLowerCase
      ());
20      return capital != null ?
      capital : "Data not
      found";
21  }
22  }
23
24  public class UserInterface {
25      public static void main
      (String[] args) {
26          Scanner scanner = new
      Scanner(System.in);
27          Country country = new
      Country();
28
29          int choice;
30          do {
31              System.out.println("1
      .Add\n2.Search\n3
      .Exit");
32              System.out.println
      ("Enter your
      choice");
```

Run



Main.java

Output



```
33         choice = scanner  
34             .nextInt();  
35         scanner.nextLine(); //  
36             Consume newline  
37  
38         switch (choice) {  
39             case 1:  
40                 System.out  
41                     .println("Enter  
42                         the country name"  
43                     );  
44                 String cname =  
45                     scanner.nextLine  
46                     ();  
47                 System.out  
48                     .println("Enter  
49                         the capital name"  
50                     );  
51                 String capname  
52                     = scanner.nextLine  
53                     ();  
54                 country.add  
55                     (cname, cap  
56                 );  
57                 break;
```

Run



Main.java

Output



```
43         break;
44     case 2:
45         System.out
.println("Enter
the country name"
);
46         cname = scanner
.nextLine();
47         System.out
.println(country
.search(cname));
48         break;
49     case 3:
50         System.out
.println("Thank
you for using the
application");
51         break;
52     default:
53         System.out
.println("Invalid
choice. Please
enter a number
between 1 & 3");
);
```

Run



Main.java

Output



```
46         cname = scanner
47             .nextLine();
48         System.out
49             .println(country
50                 .search(cname));
51         break;
52     case 3:
53         System.out
54             .println("Thank
55                 you for using the
56                 application");
57         break;
58     default:
59         System.out
60             .println("Invalid
61                 choice. Please
62                 enter a number
63                 between 1 and 3."
64             );
65     }
66 } while (choice != 3);
67 scanner.close();
68 }
69 }
```

Run

7:31

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Main.java

Output



```
java -cp /tmp/0wj1B0RoRJ/UserInterface
```

```
1.Add
```

```
2.Search
```

```
3.Exit
```

```
Enter your choice
```

```
5
```

```
Invalid choice. Please enter a number  
    between 1 and 3.
```

```
1.Add
```

```
2.Search
```

```
3.Exit
```

```
Enter your choice
```

```
3
```

```
Thank you for using the application
```

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