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Part 1

Math calculation problem. Convert to celsius. Python

```python
def convertToCelsius(x):    #function convert to celsius
    y = float(x)
    y = (y - 32) * 5 / 9
    return str(round(y, 1))

z=[]
for i in range(1, 8):    #user input fahrenheit for 7 days
    x = input("Day " + str(i) + " Fahrenheit: ")
    z.append(x)

for i in range(1, 8):    #output celsius for 7 days
    print("Day " + str(i) + " Celsius: " + convertToCelsius(z[i-1]))
```

Output

```
Day 1 Fahrenheit: 27
Day 2 Fahrenheit: 29
Day 3 Fahrenheit: 32
Day 4 Fahrenheit: 34
Day 5 Fahrenheit: 35
Day 6 Fahrenheit: 28
Day 7 Fahrenheit: 35
```

```
Day 1 Celsius: -2.8
Day 2 Celsius: -1.7
Day 3 Celsius: 0.0
Day 4 Celsius: 1.1
Day 5 Celsius: 1.7
Day 6 Celsius: -2.2
Day 7 Celsius: 1.7

Process finished with exit code 0
```

Web development problem. Image appear. Javascript

```
<!DOCTYPE html>
<html>
<body>

<img id="image">

<button onclick="imageAppear()">Click</button>

<script>
function imageAppear() {        //click button image appear
  document.getElementById('image').src = 'picture.jpg';
}
</script>

</body>
</html>
```
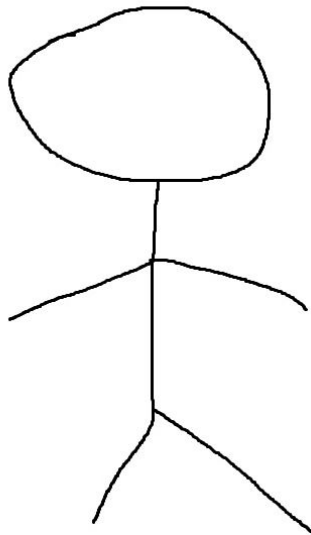
Output

Click

Reporting problem. Output data hashmap. java

```java
1  package helloWorld;
2  import java.util.HashMap;
3
4  public class dataHashmap {
5
6⊖     public static void main(String[] args) {
7          HashMap<String, Integer> listOfName = new HashMap<String, Integer>();
8          HashMap<String, Integer> listOfName2 = new HashMap<String, Integer>();
9          HashMap<String, Integer> listOfName3 = new HashMap<String, Integer>();
10         HashMap<String, Integer> listOfName4 = new HashMap<String, Integer>();
11         HashMap<String, Integer> listOfName5 = new HashMap<String, Integer>();
12         HashMap<String, Integer> listOfName6 = new HashMap<String, Integer>();
13         HashMap<String, Integer> listOfName7 = new HashMap<String, Integer>();
14         listOfName.put("johnDoe", 1);    //put data in hashmap
15         listOfName.put("tony", 11);
16         listOfName2.put("johnDoe", 2);
17         listOfName2.put("tony", 12);
18         listOfName3.put("johnDoe", 3);
19         listOfName3.put("tony", 13);
20         listOfName4.put("johnDoe", 4);
21         listOfName4.put("tony", 14);
22         listOfName5.put("johnDoe", 5);
23         listOfName5.put("tony", 15);
24         listOfName6.put("johnDoe", 6);
25         listOfName6.put("tony", 16);
26         listOfName7.put("johnDoe", 7);
27         listOfName7.put("tony", 17);
28         System.out.println("Day 1");
29         for (String i : listOfName.keySet()) {  //output data hashmap
30             System.out.println(i + "   " + listOfName.get(i));
31         }
32         System.out.println("Day 2");
33         for (String i : listOfName2.keySet()) {
34             System.out.println(i + "   " + listOfName2.get(i));
35         }
36         System.out.println("Day 3");
37         for (String i : listOfName3.keySet()) {
38             System.out.println(i + "   " + listOfName3.get(i));
39         }
40         System.out.println("Day 4");
41         for (String i : listOfName4.keySet()) {
42             System.out.println(i + "   " + listOfName4.get(i));
43         }
44         System.out.println("Day 5");
45         for (String i : listOfName5.keySet()) {
46             System.out.println(i + "   " + listOfName5.get(i));
47         }
48         System.out.println("Day 6");
49         for (String i : listOfName6.keySet()) {
50             System.out.println(i + "   " + listOfName6.get(i));
51         }
52         System.out.println("Day 7");
53         for (String i : listOfName7.keySet()) {
54             System.out.println(i + "   " + listOfName7.get(i));
55         }
56     }
57 }
58
```

Output

```
<terminated> dataHashmap [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe  (Feb 13, 2021, 1:12:38 PM – 1:12:39 PM)
Day 1
tony   11
johnDoe   1
Day 2
tony   12
johnDoe   2
Day 3
tony   13
johnDoe   3
Day 4
tony   14

johnDoe   4
Day 5
tony   15
johnDoe   5
Day 6
tony   16
johnDoe   6
Day 7
tony   17
johnDoe   7
```

Part 2

Which programming language did you use for each of these problems?

I used python for math calculation problem. I used javascript for web development problem. I

used java for reporting problem.

Why did you choose a particular language?

I used python because it can be used for the math calculation problem. I used javascript because

it can be used for the web development problem. I used java because it can be used for the

reporting problem

Was there any difficulty or ease with using that language for solving the problem?

It was difficult to learn how to solve the problems.

If you had to solve the problem again, would you choose a different language?

I would choose the same language.