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Part 1

Math calculation problem. Convert to celsius. Python

```
convertToCelsius.py ×
1 def convertToCelsius(fahrenheit):    #fahrenheit convert to celsius
2     celsius = 0.0
3     celsius = (float(fahrenheit) - 32) * 5 / 9
4     return str(round(celsius, 1))
5
6 arrayForFahrenheit=[]
7 for i in range(1, 8):    #user input fahrenheit for 7 days
8     userInputFahrenheit = input("Day " + str(i) + " Fahrenheit: ")
9     arrayForFahrenheit.append(userInputFahrenheit)
10
11 for i in range(1, 8):    #output celsius for 7 days
12     print("Day " + str(i) + " Celsius: " + convertToCelsius(arrayForFahrenheit[i-1]))
```

Output

```
>>> %Run convertToCelsius.py

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
```

Web development problem. Image appear. Javascript

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

<img id="image">

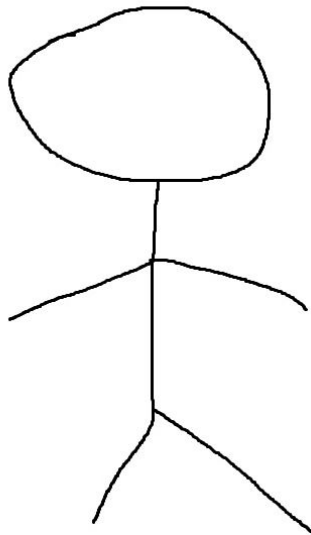
<button onclick="imageAppear()">Click</button>

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

</body>
</html>
```

Output

Click



Click

Reporting problem. Output data hashmap. 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
46        for (String i : listOfName5.keySet()) {
47            System.out.println(i + " " + listOfName5.get(i));
48        }
49        System.out.println("Day 6");
50        for (String i : listOfName6.keySet()) {
51            System.out.println(i + " " + listOfName6.get(i));
52        }
53        System.out.println("Day 7");
54        for (String i : listOfName7.keySet()) {
55            System.out.println(i + " " + listOfName7.get(i));
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.