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Part 1

Math calculation problem. Convert to celsius. Python

convertToCelsius.py

```python
def convertToCelsius(fahrenheit):    #fahrenheit convert to celsius
    celsius = 0.0
    celsius = (float(fahrenheit) - 32) * 5 / 9
    return str(round(celsius, 1))

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

for i in range(1, 8):   #output celsius for 7 days
    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()">Press to make image appear</button>

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

</body>
</html>
```

Output

Reporting problem. Output data hashmap. java

```java
package helloWorld;
import java.util.HashMap;

public class dataHashmap {

    public static void main(String[] args) {
        HashMap<String, Integer> listOfName = new HashMap<String, Integer>();
        HashMap<String, Integer> listOfName2 = new HashMap<String, Integer>();
        HashMap<String, Integer> listOfName3 = new HashMap<String, Integer>();
        HashMap<String, Integer> listOfName4 = new HashMap<String, Integer>();
        HashMap<String, Integer> listOfName5 = new HashMap<String, Integer>();
        HashMap<String, Integer> listOfName6 = new HashMap<String, Integer>();
        HashMap<String, Integer> listOfName7 = new HashMap<String, Integer>();
        listOfName.put("johnDoe", 1);   //put data in hashmap
        listOfName.put("tony", 11);
        listOfName2.put("johnDoe", 2);
        listOfName2.put("tony", 12);
        listOfName3.put("johnDoe", 3);
        listOfName3.put("tony", 13);
        listOfName4.put("johnDoe", 4);
        listOfName4.put("tony", 14);
        listOfName5.put("johnDoe", 5);
        listOfName5.put("tony", 15);
        listOfName6.put("johnDoe", 6);
        listOfName6.put("tony", 16);
        listOfName7.put("johnDoe", 7);
        listOfName7.put("tony", 17);
        System.out.println("Day 1");
        for (String i : listOfName.keySet()) {  //output data hashmap
              System.out.println(i + "  " + listOfName.get(i));
        }
        System.out.println("Day 2");
        for (String i : listOfName2.keySet()) {
              System.out.println(i + "  " + listOfName2.get(i));
        }
        System.out.println("Day 3");
        for (String i : listOfName3.keySet()) {
              System.out.println(i + "  " + listOfName3.get(i));
        }
        System.out.println("Day 4");
        for (String i : listOfName4.keySet()) {
              System.out.println(i + "  " + listOfName4.get(i));
        }
        System.out.println("Day 5");
        for (String i : listOfName5.keySet()) {
              System.out.println(i + "  " + listOfName5.get(i));
        }
        System.out.println("Day 6");
        for (String i : listOfName6.keySet()) {
              System.out.println(i + "  " + listOfName6.get(i));
        }
        System.out.println("Day 7");
        for (String i : listOfName7.keySet()) {
              System.out.println(i + "  " + listOfName7.get(i));
        }
    }
}
```

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.