Chapter 10 Lab Assignment Answer Form

Part 1 Questions:

1. What results are displayed if you type 3 in response to the first prompt and any number < 3 in the second prompt?
   ('Your value is ', 'None')

2. What results are displayed if you type 10 in response to the first prompt and 3 in the second prompt?
   ('Your value is ', '7')

3. What results are displayed if you type 10 in response to the first prompt and 7 in the second prompt?
   ('Your value is ', '3')

4. What results are displayed if you type 12 in response to the first prompt and 3 in the second prompt?
   Out of range

5. What results are displayed if you type 10 in response to the first prompt and 12 in the second prompt?

   Out of range

Part 2. Questions:

1. How many temperatures were read after step 3?
   10

2. What were the results after step 5 and why did this happen?
   Out of range because we can not store more temperatures than what we made in the temps array. If you exceed the number that is in the temps array, then the code will fail.

3. Record the code from the fixed program in step 6 below:

```
File Edit View Search Terminal Help
  GNU nano 2.9.3

temps = [None]*10
numTemps = 0
var = 0
infile = open("temps.txt","r")
for line in infile.readlines():
    for i in line.split():
        var += 1
        if var <= 10:
            temps[numTemps] = float(i)
            numTemps += 1
print(str(numTemps) + ' temperatures were read.')
```

I added a var variable. Then added an if loop that will increase the loop by 1 every time till it reaches ten and it will not exceed ten.