Lab Task 5: Input/Output

Dear Students, before you start with lab work today, can I remind/ask you for two things: 1) please complete the survey for CS-205. [To access the surveys, log in to Canvas and you will see a course on the Dashboard called My Module Surveys, clicking on this will show you an Evasys option on the menu, or you can click the link on the Home page.] 2) Please register in a group for the CS-205 assignment.

1.   a) Write a short interaction dialog. The computer asks you for a large number. The user enters a number, which then will be printed to the screen again.

b) Modify your example in such a way that it reads the user's input and depending on the size of the number gives two different responses depending on whether you consider the number large enough.

Hint: have a look at the examples provided in week 5.

2.   Modify your example: if the number entered is 'not large enough' ask the user for a larger number (recursive call).

3.   a) Write a function `printStars :: Int -> IO()` that takes as input a number n and then prints n stars to the screen.

b) Once this is printed, a new row should be printed with $n - 1$ stars, and so on. Thus the evolving picture is for input 5 is as follows:

```
*****
****
***
**
*
```

This lab should should be completed in the 5th teaching week, i.e. 30st October. Sign off a week later will still be accepted, however we recommend not to delay, as you want to have time for the assignment.

After 6th November no sign-offs of Haskell labs can be accepted anymore.