CS110, Computer Programming Lab, Department of CSE, IIT Guwahati Spring' 18

Moduel 2, Stage 3: Looping Constructs

Have you complete the practice drill for this stage?

Your code for this stage will be evaluated on the following criteria

- Have you drawn the flowchart on paper for your code?
- Have you given meaningful names to variables?
- Have you added comments at appropriate places in your code?
- Have you indented your code properly?
- Have you prepared multiple test cases on paper to check correctness of your code?
- Is your code working correctly for all those test cases?

Assignment 1:

Given a number n find its kth root with the precision of m decimal places. Accept values of n, k, and m from user at the run time.

- Assume that n, k, and m are natural numbers with value greater than zero.
- Do not use any library functions to directly compute the root.
- Do not do any rounding off based on m+1 the digit after decimal point.

Example:

Input: n= 20 m = 3 k=2

Goal: Find cube root of 20 with precision of two places after decimal.

Answer: 2.71

Input: n= 31 m = 4 k=3

Goal: Find fourth root of 30 with precision of three places after decimal.

Answer: 2.359