



# CODING BLOCKS

Code Your Way To Success

## Basics of Problem Solving

### Flowcharts Assignment

Design Flowcharts for following problems.

- Given N find sum of even numbers from 1 to N.
- Given a Number N check if it Prime or Not?
- Given a Number N check if it part of Fibonacci Series or Not?

### Hour Glass Puzzle



You have two hourglasses: a 7 minute one and a 11 minute one.  
Using just two hourglass, accurately time 15 minutes.

### Apple and Oranges Puzzle



There are three closed and opaque cardboard boxes. One is labeled "APPLES", another is labeled "ORANGES", and the last is labeled "APPLES AND ORANGES". You know that the labels are currently misarranged, such that no box is correctly labeled. You would like to correctly rearrange these labels. To accomplish this, you may draw only one fruit from one of the boxes. Which box do you choose, and how do you then proceed to rearrange the labels?