CODESHOWS MODULE 1 (For First Year)

TUTORIAL FOR C:

- C Basic Syntax:
 - https://www.studytonight.com/c/c-syntax.php
 - o https://www.youtube.com/watch?v=3cMs1SXAhgM
- C Switch Statement:-
 - https://www.studytonight.com/c/switch-statement-in-c.php
 - https://www.youtube.com/watch?v=OtG5oFp_UeQ
- Loops in C:-
 - https://www.studytonight.com/c/loops-in-c.php
 - https://www.youtube.com/watch?v=RMKp7Qr7tZA
 - https://www.youtube.com/watch?v=es z0bM5pO0
 - https://www.youtube.com/watch?v=uGHWWJ1wHol
- Arrays in C:
 - https://www.studytonight.com/c/arrays-in-c.php
 - https://www.youtube.com/watch?v=LVS4S_0Fy6Y
- Datatypes in C:-
 - https://www.studytonight.com/c/datatype-in-c.php/
 - https://www.youtube.com/watch?v=SKqVQO0ab8s

First year students are encouraged to complete the following course: (free)

https://www.edx.org/course/cs50s-introduction-to-computer-science

Extracts from cs50:

- Why C?
 - https://www.youtube.com/watch?v=xCOj6vTqMxU
- C basics
 - https://www.youtube.com/watch?v=wEdvGqxafq8
- Arravs
 - https://www.youtube.com/watch?v=u-kH-5JJSgU

<u>Optional</u>: Brainteasers (to be attempted after you are comfortable with the above concepts. You might need to solve a few sample problems before you attempt these):

(for submission and evaluation, you will have to work on cs50 ide and login to edx)

• Caesar: https://docs.cs50.net/problems/caesar/caesar.html

• Game of fifteen: https://cdn.cs50.net/2016/x/psets/3/pset3/pset3.html

TOPICS FOR BASIC MATHS:

- AP
- GP
- Probability
- Permutations and Combinations
- Statistics