**CODESHOWS TEAM NOW HAVE PREPARED TUTORIAL-2 FOR THIS SEMESTER. THIS TUTORIAL WILL BE BIT MORE LENGTHY AND ONE LEVEL UP. MAKE SURE YOU COMPLETE ALL THE TUTORIALS BEFORE DEADLINE, ELSE YOU WILL FIND SUCCESSIVE TUTORIALS MUCH MORE DIFFICULT TO COMPLETE.**

# Compulsory for all years:

1: COMPLETE TUTORIAL-1 BEFORE STARTING THIS TUTORIAL.
2: WATCH THESE VIDEOS FOR CP
3: SETUP CS50 IDE
1. CREATE ACCOUNT ON HTTPS://WWW.EDX.ORG
2. OPEN HTTPS://CS50.IO
3. LOG IN VIA EDX AND PRESS GO
4. YOUR VIRTUAL UBUNTU SYSTEM IS READY.
5. WATCH THIS VIDEO FOR MORE INFO HTTPS://WWW.YOUTUBE.COM/WATCH?V=TEJBE85AZT4
6. FROM NOW ONWARD YOU MUST USE THIS IDE FOR ALL YOUR PROJECTS.
4: GEEKSFORGEEKS COURSES (STARTING 14TH NOVEMBER)
A. HTTPS://PRACTICE.GEEKSFORGEEKS.ORG/COURSES/FORK-CPP
B. HTTPS://PRACTICE.GEEKSFORGEEKS.ORG/COURSES/FORK-JAVA (1ST YEAR CAN SKIP THIS)
5: PARTICIPATING IN ALL THE CONTESTS ON ALL THE FAMOUS CP WEBSITES IS MANDATORY.

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FOLLOWING TASKS TO BE DONE:

# [A] For 1st year students:

1: HTML & CSS
A. HTTPS://WWW.W3SCHOOLS.COM/HTML/DEFAULT.ASP (**Compulsory**)
B. HTTPS://WWW.W3SCHOOLS.COM/CSS/DEFAULT.ASP (**Compulsory**)
C. HTTPS://WWW.YOUTUBE.COM/WATCH?V=7HT_RW5PZQQ (**Compulsory**)
D. HTTPS://WWW.YOUTUBE.COM/WATCH?V=KW_LLGIE3_8 (**Compulsory**)
E. HTTPS://WWW.JAVATPOINT.COM/HTML-TUTORIAL
F. HTTP://HTMLDOG.COM/
2: CP (COMPETITIVE PROGRAMMING) (**Compulsory**)
A. HTTPS://WWW.HACKERRANK.COM/DOMAINS/ALGORITHMS (TAGGED WITH EASY)
   -WARM-UP
   -IMPLEMENTATION
   -STRINGS
B. CONTINUE PRACTICING BEGINNER SECTION OF ALL THE FAMOUS CP WEBSITES

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# [B] For 2nd year students:

**#** (**Compulsory**) - ALL 1ST YEAR COURSE ABOVE SHOULD BE COMPLETED BY YOU.

1: TECHNOLOGY (COMPLETE AT LEAST ONE SECTION FROM THESE THREE)
I: HTML & CSS (RECOMMENDED)
  A. COMPLETE HTML & CSS SECTION FROM 1ST YEAR TUTORIAL.
  B. ASSIGNMENT- CREATE MNIT WEBSITE SIMILAR TO HTTP://WWW.MNIT.AC.IN (**Compulsory**)

II: JAVA
  A. COMPLETE 3 SECTIONS FROM HTTPS://WWW.JAVATPOINT.COM/JAVA-TUTORIAL
      -JAVA TUTORIAL
      -CONTROL STATEMENTS
      -JAVA OBJECT CLASS
  B. HTTPS://WWW.YOUTUBE.COM/PLAYLIST?LIST=PLSYEOBZWXL7OZ-FXDYKOTOURHHMUWD1BK
  C. BOOK: JAVA COMPLETE REFERENCE

(HTTP://IITI.AC.IN/PEOPLE/~TANIMAD/JAVATHECOMPLETEREFERENCE.PDF)

III: PYTHON
A. HTTP://CS50.TV (LECTURE 8-9 AND COMPLETE CORRESPONDING PROBLEM SETS) (**Compulsory**)
B. HTTPS://WWW.LEARNPYTHON.ORG/

2: CP
A. HTTPS://WWW.CODECHEF.COM/CERTIFICATION/PREPARE (9-10 TOPICS)
B. HTTPS://WWW.GEEKSFORGEEKS.ORG/CPP-STL-TUTORIAL/

3: CS50
A. HTTP://CS50.TV (UP-TO LECTURE 3 AND COMPLETE CORRESPONDING PROBLEM SETS)

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# [C] For 3rd year students:

**# (Compulsory)** - ALL 1ST YEAR AND 2ND YEAR COURSE ABOVE SHOULD BE COMPLETED BY YOU.

1. TECHNOLOGY (ALL SECTIONS ARE MANDATORY)
I: JAVA
A. COMPLETE 6 SECTIONS FROM HTTPS://WWW.JAVATPOINT.COM/JAVA-TUTORIAL
-JAVA TUTORIAL
-CONTROL STATEMENTS
-JAVA OBJECT CLASS
-JAVA INHERITANCE
-JAVA POLYMORPHISM
-JAVA ABSTRACTION
B. HTTPS://WWW.YOUTUBE.COM/PLAYLIST?LIST=PLSYEOBZWXL7OZ-FXDYKOTOURHHMUWD1BK
C. BOOK: JAVA COMPLETE REFERENCE
(HTTP://IITI.AC.IN/PEOPLE/~TANIMAD/JAVATHECOMPLETEREFERENCE.PDF)

II: PYTHON
A. HTTP://CS50.TV (LECTURE 8-9 AND COMPLETE CORRESPONDING PROBLEM SETS)
B. HTTPS://WWW.LEARNPYTHON.ORG/

2. CP
A. HTTPS://WWW.CODECHEF.COM/CERTIFICATION/PREPARE (9-10 TOPICS)
B. HTTPS://CODEFORCES.COM/BLOG/ENTRY/13529

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TERMS USED-
CP: COMPETITIVE PROGRAMMING

FAMOUS CP WEBSITES
CODECHEF
CODEFORCES
HACKERRANK
HACKEREARTH
PROJECTEULER
SPOJ
A2OJ
TOPCODER
ATCODER
CSACADEMY
UVA.ONLINEJUDGE

GOOD IDE'S
CODECHEF
HACKERRANK
IDEONE