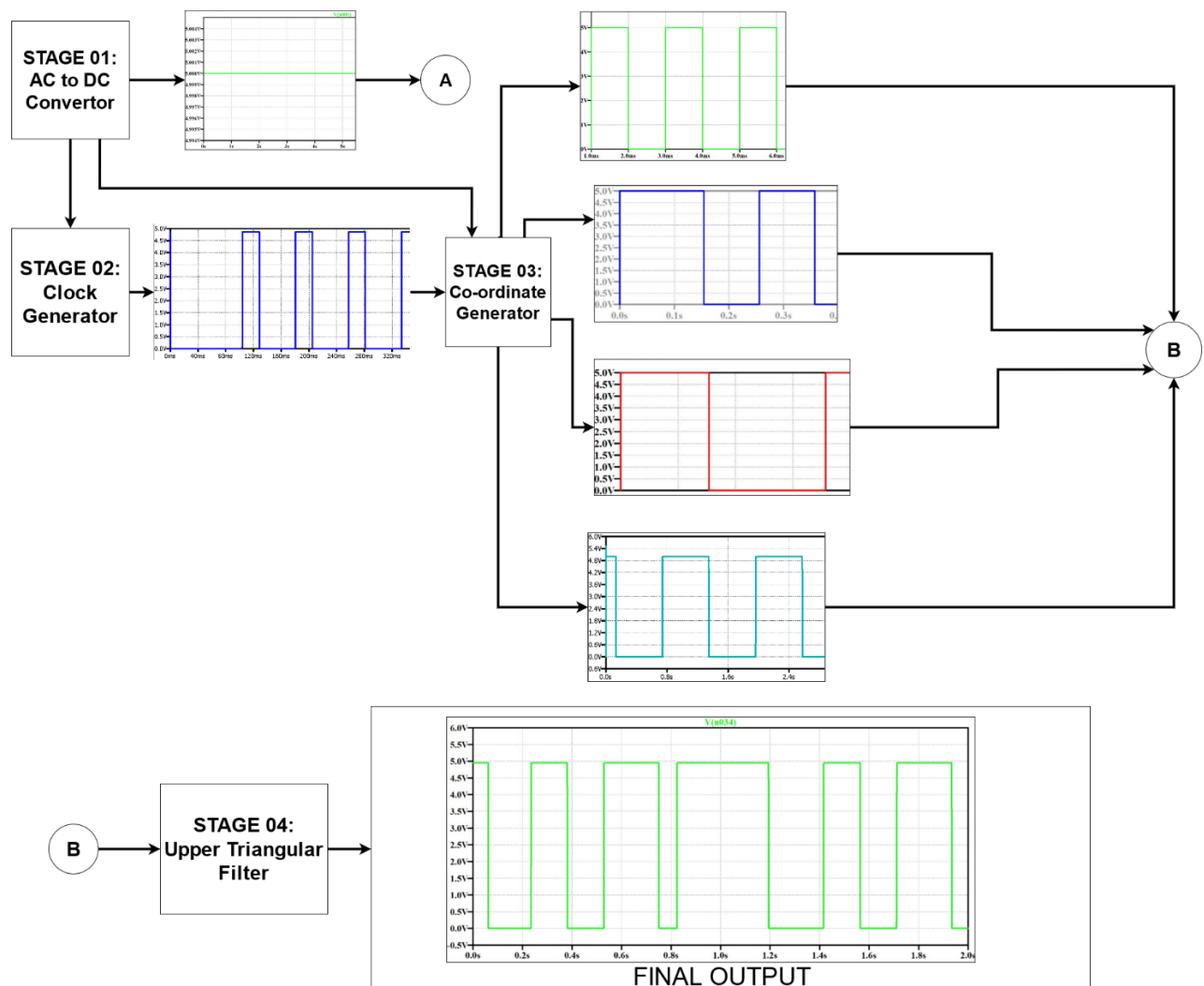


## For First Year Students

### Problem Statement:

Mr. Arnab is a huge fan of mathematics, especially matrices. He believes that Upper Triangular Matrices can generate interesting results. He decides to test his theory using some electronic components. Help Arnab to design a circuit such that the final output remains high when the input co-ordinates are a part of a 4x4 upper triangular matrix.

### Block Diagram:



### Permitted Inputs:

1. Mains (230V-50Hz)

### Expected Output:

1. 4x4 Upper Triangular Matrix

ALL THE BEST!!!