

README FILE

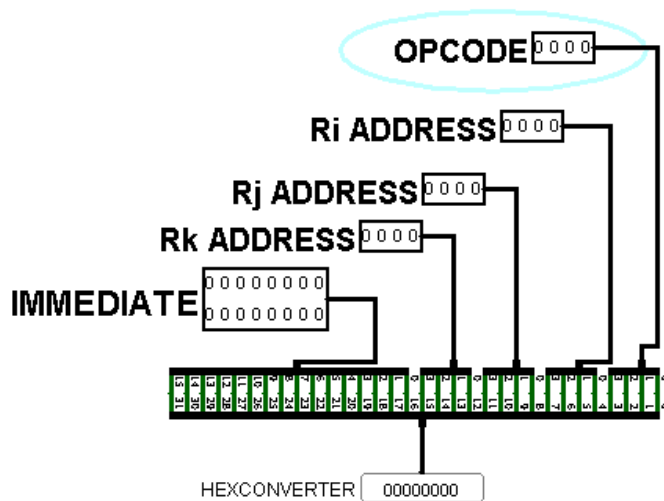
KOLLI JOGENDRA DURGA PRASAD

How to use the circuit

- 1) For each instruction one have to enter the binary code into respective slots in the **hex converter** (which is provided in the circuit)which will convert it into hexadecimal code
- 2) After converting every binary code into hexadecimal then enter the hexadecimal code into the memory

HEXCONVERTOR

**!!NOTE THIS IS JUST FOR CONVERSION PURPOSE
AFTER Converting we have to enter it into memory**



Example :-

Suppose we have two instructions to perform

LOAD R1,X(R2)(where x is 2)

ADD R1,R2,R3

Step 1:

LOAD R1,X(R2)

LOAD-->0010

Ri ADDRESS=R1=0000(fill it in the Ri ADDRESS slot in Hex converter)

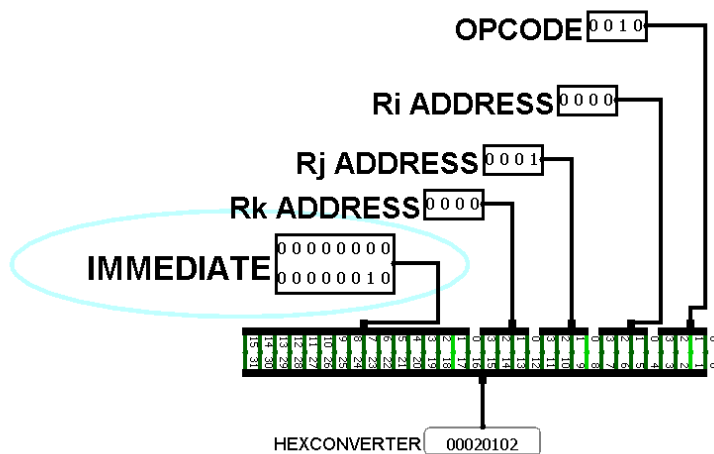
Rj ADDRESS=R2=0001(fill it in the Rj ADDRESS slot in Hex converter)

Rk ADDRESS=Not present=keep it as 0000(fill it in the Rk ADDRESS slot in Hex converter) (It is not used any way)

Immediate =X=00000010(fill it in the immediate slot in Hex converter)

HEXCONVERTOR

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ADD R1,R2,R3

ADD-->0100

Ri ADDRESS=R1=0000(fill it in the Ri ADDRESS slot in Hex converter)

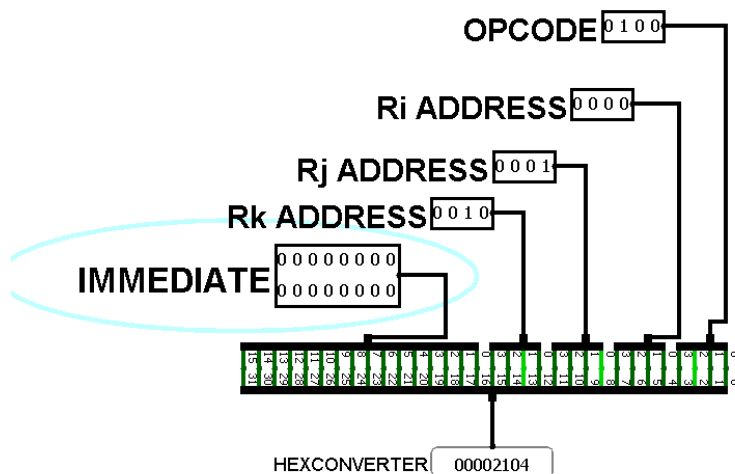
Rj ADDRESS=R2=0001(fill it in the Rj ADDRESS slot in Hex converter)

Rk ADDRESS=R3=0010(fill it in the Rk ADDRESS slot in Hex converter)

Immediate =not present=keep it as 00000000(fill it in the immediate slot in Hex converter)

HEXCONVERTOR

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Points to be noted

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- 1) If we don't use a certain slot in the converter then make sure it is filled with only zero's
 - 2) Ex:- suppose in hlt we only use opcode slot ,so remaining all slots should be zeros.
 - 3) Ex2:- In MVI we use Ri and immediate slots, so remaining all slots should be only filled with zeros

STEP 2:

[illegible]

Use clock to start the process, after the clock starts running every instruction we stored in the memory will be executed .