Md Shahid Emdad

CSC 33200

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**HW 01**

**Question:**

Q3.

if (X <Y) X = X + Y;

else Y = Y + X;

L:

**Answer:**

Load X, R1

Load Y, R2

cmp R2, R1 // computing Y – X

jmpp L // the condition: if Y – X gives positive output, then Y > X otherwise, X < Y

Add X, Y // Y = Y + X (else)

jmp L1 //it does let execute L if the statement is not true

L: Add Y, X // X = X + Y

L1: