Mic-1 Simulator Demo

mal ⇒ micro assembly language  L1 - Source
mic ⇒ micro binary language  L1 - binary
java ⇒ Java Assembly Source  L2 - Source
ijvm ⇒ IJVM binary  L2 - binary.

User input must be given as hex values 0, 1,..., 9, A, B,..., F
First click inside the console window and then enter input values.

Review outbin - micro program.

XOR

\[
\begin{array}{c|c|c|c|c}
& 6 & 0 & 1 & 0 \\
---&---&---&---&---
\hline
3 & 0 & 0 & 1 & 1 \\
\hline
\end{array}
\]

\[
0 & 1 & 0 & 1
\]

1. Include (append) outBin microinstructions to arg3 as microinstructions and test with arg3:ijvm

2. Append interpretation code for IXOR

3. " " " " for ADD
   (Carry propagation from A + B)

Carefully read all tips for .md file from L1:

Labels in If statements:

\[
\text{OP}= H; \quad \text{if (Z) go to Label1; else go to Label2}
\]

\[
\text{TOS} = H + MDR; \quad \text{if (Z) go to Label5; else go to Label2}
\]
TOS = H + MDR; if (Z) goto Label5; else goto Label2
20
256 + 28 276