

Tutorial 1

Computer Architecture and Organization

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1. Consider the byte registers $R0 = 62_H$ (H means Hexadecimal) and $R1 = 71_H$. What will be the contents of R0 and R1 after the following instructions are executed?
 - (i) Add R1,R0 ,
 - (ii) XOR R0,R0,
 - (iii) AshiftR #2, R1
 - (iv) RotateR #2, R0
2. Perform multiplication using both Booth's and Modified Booth's algorithm.

A = 25 and B = -35.
3. Explain different addressing modes with sample instructions.