EGE UNIVERSITY LOGIC DESIGN LABORATORY EXPERIMENT-6

Arithmetic Circuits

EXPERIMENTAL WORK

Design an arithmetic circuit that **multiplies** two bit numbers $a_1 a_0$ and $b_1 b_0$. You will need two **half adders** for the addition operations. Connect the circuit and check its operation.

Required Equipment: You can use any gate you want to design the circuit: 7408 AND, 7432 OR, 7404 NOT, 7400 NAND, 7402 NOR and 7486 XOR gates. Use switches for the inputs and LEDs for the outputs.

