

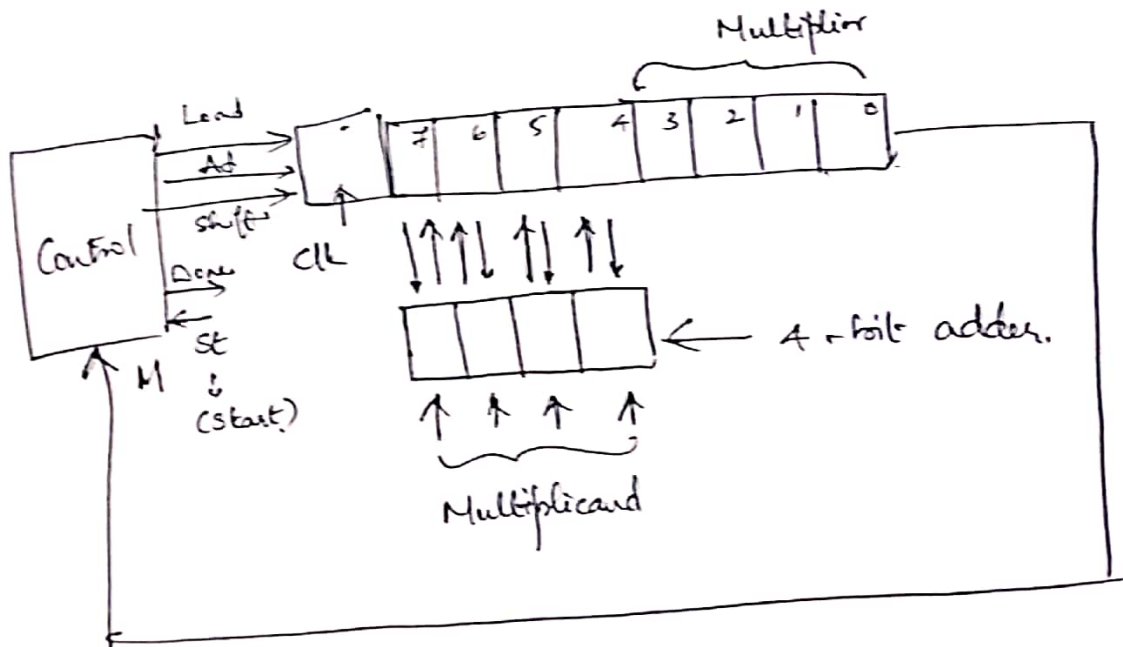
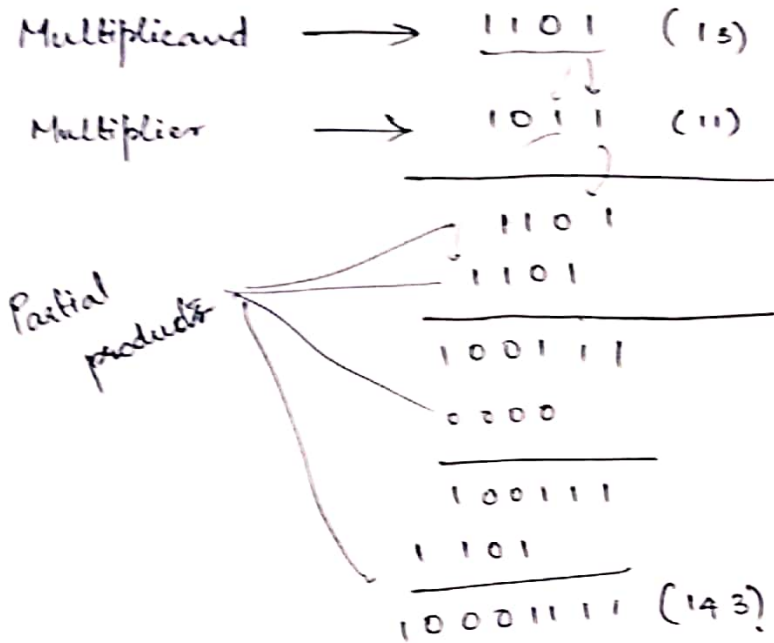
11/04

# DIGITAL SYSTEMS

①

THURSDAY

## BINARY MULTIPLIER

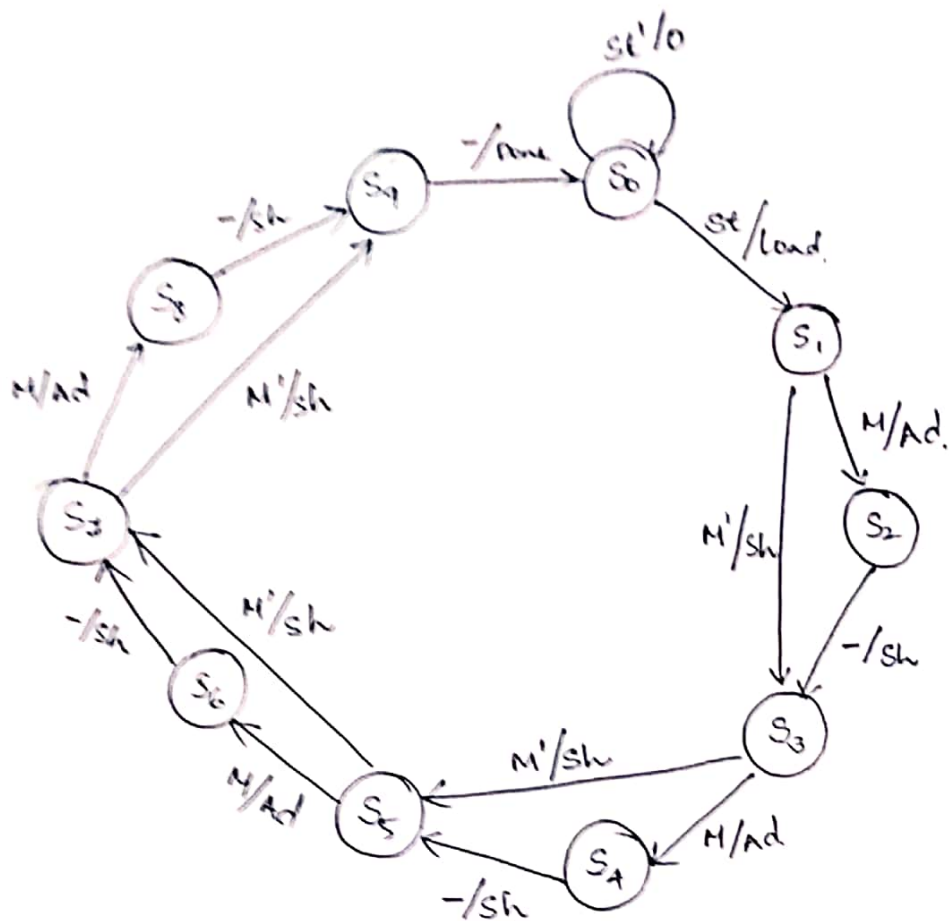


Least significant bit in multiplier decides/controls the

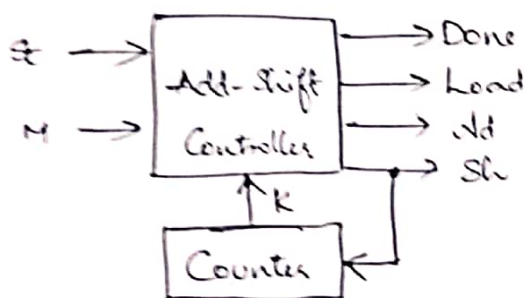
Add & Shift operations.

'0'  $\rightarrow$  shift ; '1'  $\rightarrow$  ~~shift~~ Add & Shift.

## State Graph



## Multiplier control



## State graph for add-shift

