Lab 9.

We have discussed multiplier and distributed arithmetic for use in operations like MAC.

Task 1.
A. Create multiplier to implement z = x*y + u + v, where are variables are single bit numbers.
B. Chain these multipliers to create a multiplier implementing z = x*b + u + d, where b and d are single bit wide and x and u are n bit wide.
C. Chain the nx1 multipliers obtained in B to make a nxm multiplier for z = x*y + u + v, where x and u are n bit numbers and y and b are m bit numbers.