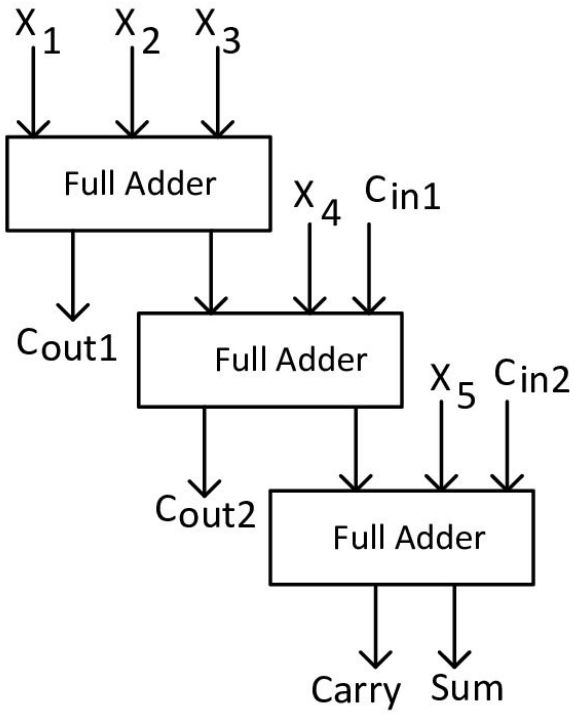
DADDA MULTIPLIER USING 5:2 COMPRESSOR

A 5:2 compressor has 3 full adders. It takes 5 Data inputs along with 2 Carry input and produces 1 Sum and 3 Carry output



A dadda multiplier using 5:2 compressor does 16 X 16 multiplication by
(i) first reducing the columns of partial products to a max height of 12
(ii) reducing the columns from (i) to a max height of 5
(iii) reducing the columns from (ii) to a max height of 2
(iv) Recursive adder to add the 2 rows from (iii)

OUTPUT :