Digital design(A)

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Quine McCluskey

Steps :

1- Draw a table which contains 3 icons:

-Groups: *here we will divide our truth table into groups according to number of 1s.*

-Minterm: *contains minterms of each group.*

-Binary representation : *here we will represent each minterm accrording to it's binary representation.*

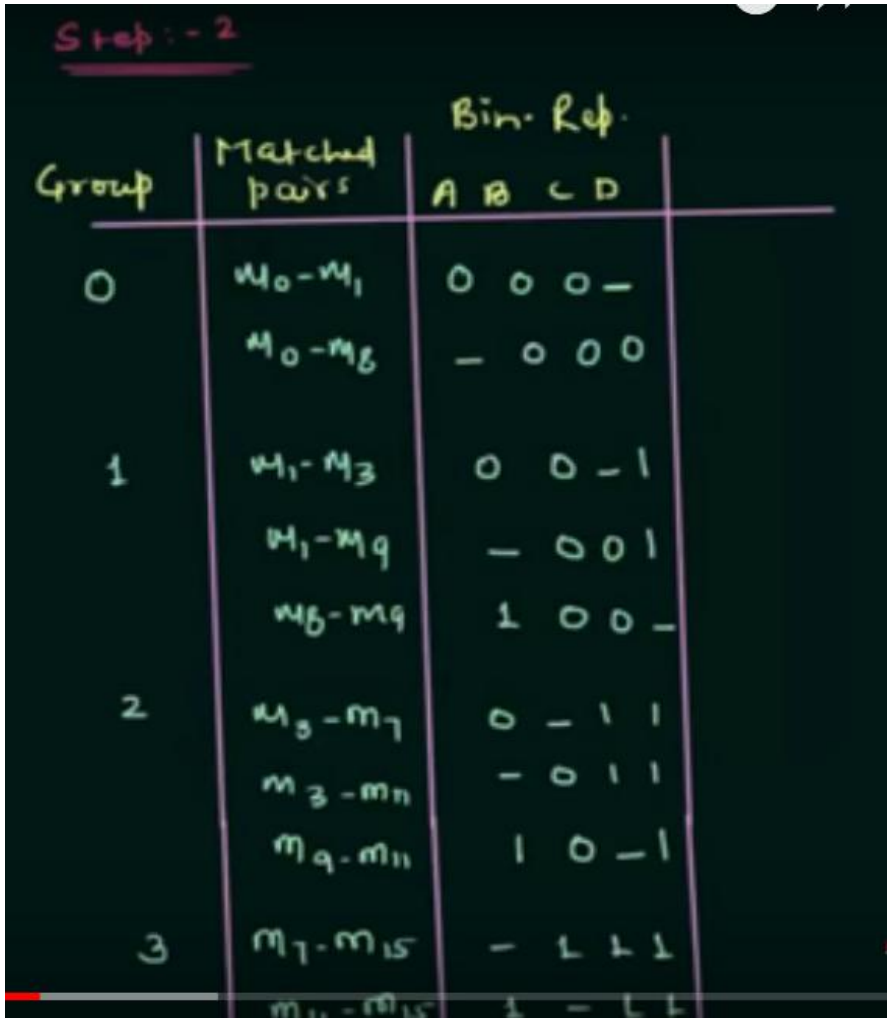
2- Make a new table which contains 3 icons :

-Groups.

-Matched pairs : *contains pairs of minterms which are matched in all them bits except in one bit.*

-Binary representation.

3- Repeat the past step until you never find any matched pairs again.



4- Make a new table which named as prime impilicant and get the essential primes from it then write your function expression.