

## Matrix Addition & Subtraction

Assuming  $A$  is matrix of  $m/n$  order and  $B$  is a matrix of  $p/q$  order then

(a) Matrix addition or subtraction is possible only order of the matrix same i.e.  $m=p$  &  $n=q$  then the matrix addition or subtraction is possible otherwise no.

(b) If the matrix addition or subtraction is possible then the resultant matrix of  $C$  will have the same order as  $A$  or  $B$ .

(c) For addition element of  $A$  will be added with corresponding element of  $B$  & result will be store in the corresponding result in  $C$  for all the elements of  $A$  &  $B$ .

### Subtraction

(d) Element of  $B$  will be subtracted with corresponding element  $A$  & the result will be stored in the corresponding element  $C$  for all  $A$  &  $B$ .