ALGORITHM

Step 1 : Start

Step 2 : Input the matrices.

Step 3 : for i=0 to m-1
for j=0 to n-1 then

$$Sum[i][j] = a[i][j] + b[i][j]$$
$$diff[i][j] = a[i][j] - b[i][j]$$

Step 4 : output Sum & diff.

Step 5 : Stop

FLOWCHART.