(#) Moterix Multiplication :-

$$(M \times n) \times (P \times q)$$
 $(3 \times 2) \times (2 \times 3)$ 
 $(3 \times 2) \times (2 \times 3)$ 
 $(3 \times 2) \times (2 \times 3)$ 

Result =  $m \times q$ .

$$A = \begin{bmatrix} a_{00} & a_{01} & a_{12} \\ a_{10} & a_{11} & a_{12} \\ a_{20} & a_{21} & a_{22} \end{bmatrix} \times B = \begin{bmatrix} b_{00} & b_{01} & b_{02} \\ b_{10} & b_{11} & b_{12} \\ b_{20} & b_{21} & b_{22} \end{bmatrix}$$

$$C_{00} = a_{00} \times b_{00} + a_{01} \times b_{10} + a_{02} \times b_{20}$$

$$C_{01} = a_{00} \times b_{01} + a_{01} \times b_{10} + a_{02} \times b_{20}$$

$$C_{02} = a_{00} \times b_{01} + a_{01} \times b_{10} + a_{02} \times b_{20}$$

$$C_{02} = a_{00} \times b_{01} + a_{01} \times b_{11} + a_{02} \times b_{21}$$

C[i][j] = C[i][j] + a[i][K] + b[x][j](3x3) + (3x3) foge ( i=0 ; i2 m = i++) 10x(3=03 349337+1) { C[i][j] =0;3 {091(K=0; K<0; K++) C (1][]] + O[][] + O[][][] 米 b 2 k7[j]; 2 3 C 207 [07 = 0+ 080][0] £b[0720] +a20][1] x621]20]+ 0507 [27 7 6[2] [0].

Q[0][i] = 0 + a[0][a] + b[0] + a[0][1] + b[1][1] +a[0][2] + b[1][1]