**//Matrix Multication**

#include <iostream>

using namespace std;

int main() {

int r1,c1, r2,c2, i , j , k;

cout<<"enter the size of A matrix row: ";

cin>>r1;

cout<<"enter the size of A martix columns: ";

cin>>c1;

cout<<"enter the size of B matrix row: ";

cin>>r2;

cout<<"enter the size of B martixcolumns: ";

cin>>c2;

int a[r1][c1], b[r2][c2], m[r1][c2];

//entering values for a matrix

cout<<"enter the values of a matrix";

for(i=0; i<r1; i++)

{

for(j=0; j<c1; j++)

{

cin>>a[i][j];

}

}

//displaying matrix

for(i=0; i<r1; i++)

{

for(j=0; j<c1; j++)

{

cout<<a[i][j]<<" ";

}

cout<<"\n";

}

//entering values for b matrix

cout<<"enter the values of b matrix";

for(i=0; i<r2; i++)

{

for(j=0; j<c2; j++)

{

cin>>b[i][j];

}

}

//displying b matrix

for(i=0; i<r2; i++)

{

for(j=0; j<c2; j++)

{

cout<<b[i][j]<<" ";

}

cout<<"\n";

}

//done

//matrix multiplicaion

for(i=0; i<r1; i++)

{

for(j=0; j<c2; j++)

{

m[i][j] = 0;

for(k=0; k<=c2; k++)

{

m[i][j] = m[i][j] + (a[i][k] \* b[k][j]);

}

}

}

//dislay

for(i=0; i<r1; i++)

{

for(j=0; j<c2; j++)

{

cout<<m[i][j]<<" ";

}

cout<<"\n";

}

return 0;

}