#include<iostream>

using namespace std;

int main(){

cout<<endl;

int m1[4][4], m2[4][4],add[4][4],sub[4][4],mul[4][4];

for(int i=0; i<4; i++){

for(int k=0; k<4; k++){

cout<<"enter value for M1 ";

cin>>m1[i][k];

}

}

cout<<endl<<endl;

cout<<"MATRICE 1:"<<endl;

for(int i=0; i<4; i++){

for(int k=0; k<4; k++){

cout<<m1[i][k];

}

cout<<endl;

}

cout<<endl;

for(int i=0; i<4; i++){

for(int k=0; k<4; k++){

cout<<"enter value for M2 ";

cin>>m2[i][k];

}

}

cout<<endl<<endl<<"MARTICE 2:"<<endl;

for(int i=0; i<4; i++){

for(int k=0; k<4; k++){

cout<<m2[i][k];

}

cout<<endl;

}

cout<<endl<<endl<<"ADDITION OF M1 AND M2:"<<endl;

for(int i=0; i<4; i++){

for(int k=0; k<4; k++){

add[i][k]= m1[i][k]+m2[i][k];

cout<<add[i][k];

}

cout<<endl;

}

cout<<endl<<endl<<"SUBTRACTION OF M1 AND M2"<<endl;

for(int i=0; i<4; i++){

for(int k=0; k<4; k++){

sub[i][k]= m1[i][k]-m2[i][k];

cout<<sub[i][k];

}

cout<<endl;

}

int sum;

cout<<endl<<endl<<"MULTIPLICATION OF M1 AND M2"<<endl;

for(int i=0; i<4; i++){

for(int j=0; j<4; j++){

sum=0;

for(int k=0; k<4; k++){

sum += m1[i][k]\* m2[k][j];

mul[i][j]= sum;

}

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

}

cout<<endl;

}

}