PROGRAM 2:

Multiplication of matrices

#include<stdio.h>

int main()

{

int r,c,a[3][2],b[3][2],mul[3][2],i,j;

printf("Enter the number of rows: ");

scanf("%d",&r);

printf("Enter the number of columns: ");

scanf("%d",&c);

printf("Enter elements of 1st matrix:/n");

for(i=0;i<3;i++)

for(j=0;j<2;j++)

{

printf("Enter element a%d%d:",i+1,j+1);

scanf("%d",&a[i][j]);

}

printf("/nEnter elements of 2nd matrix:/n");

{

for(i=0;i<3;i++)

for(j=0;j<2;j++)

{

printf("Enter element b%d%d:",i+1,j+1);

scanf("%d",&b[i][j]);

}

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

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

{

mul[i][j]=a[i][j]+b[i][j];

}

printf("/n mul of two matrices:/n");

for(i=0;i<3;i++)

for(j=0;j<2;j++)

{

printf("%d",mul[i][j]);

if(j==c-1)

{

printf("/n/n");

}

}

return 0;

}

}

OUTPUT:

