```
#include<stdio.h>
#include<conio.h>
void main()
{
         int a[3][3], b[3][3], c[3][3]=\{0\}, d[3][3]=\{0\};
         int i,j,k,m,n,p,q;
         printf("Enter no. of rows and columns in matrix
A: ");
         scanf("%d%d",&m,&n);
         printf("Enter no. of rows and columns in matrix
B: ");
         scanf("%d%d",&p,&q);
         if(m!=p || n!=q)
         {
                  printf("Matrix Addition is not
possible");
                  return;
         }
         else if(n!=p)
```

```
{
                   printf("Matrix Multiplication is not
possible");
                   return;
         }
         else
         {
                   printf("Enter elements of matrix A: ");
                   for(i=0;i<m;i++)</pre>
                             for(j=0;j<n;j++)
                                       scanf("%d", &a[i][j]);
                   printf("Enter elements of matrix B: ");
                   for(i=0;i<p;i++)</pre>
                             for(j=0;j<q;j++)</pre>
                                       scanf("%d", &b[i][j]);
                   //Matrix Addition
                   for(i=0;i<m;i++)</pre>
                             for(j=0;j<n;j++)</pre>
```

```
c[i][j] = a[i][j] +
b[i][j];
                    printf("\nResult of Matirx Addition:\
n");
                    for(i=0;i<m;i++)</pre>
                    {
                              for(j=0;j<n;j++)</pre>
                                        printf("%d ", c[i]
[j]);
                              printf("\n");
                    }
                    //Matrix Multiplication
                    for(i=0;i<m;i++)</pre>
                              for(j=0;j<q;j++)</pre>
                                        for(k=0;k<p;k++)</pre>
                                                  d[i][j] +=
a[i][k]*b[k][j];
                    printf("\nResult of Matirx
Multiplication:\n");
                    for(i=0;i<m;i++)</pre>
```