```
#include <stdio.h>
void main()
{
 int arr1[50][50],brr1[50][50],crr1[50][50],i,j,k,r1,c1,r2,c2,sum=0;
    printf("\n\nMultiplication of two Matrices :\n");
    printf("-----\n");
 printf("\nInput the rows and columns of first matrix : ");
 scanf("%d %d",&r1,&c1);
 printf("\nInput the rows and columns of second matrix : ");
 scanf("%d %d",&r2,&c2);
 if(c1!=r2)
 {
   printf("Mutiplication of Matrix is not possible.");
   printf("\nColumn of first matrix and row of second matrix must be same.");
 }
 else
   {
    printf("Input elements in the first matrix :\n");
    for(i=0;i<r1;i++)
    {
      for(j=0;j<c1;j++)
      {
              printf("element - [%d],[%d] : ",i,j);
              scanf("%d",&arr1[i][j]);
      }
    }
    printf("Input elements in the second matrix :\n");
    for(i=0;i<r2;i++)
      for(j=0;j<c2;j++)
      {
```

```
printf("element - [\%d], [\%d] : ",i,j);\\
           scanf("%d",&brr1[i][j]);
   }
 }
     printf("\nThe First matrix is :\n");
             for(i=0;i<r1;i++)
             {
             printf("\n");
             for(j=0;j<c1;j++)
     printf("%d\t",arr1[i][j]);
             }
     printf("\nThe Second matrix is :\n");
             for(i=0;i<r2;i++)
             {
             printf("\n");
             for(j=0;j<c2;j++)
             printf("%d\t",brr1[i][j]);
             }
for(i=0;i<r1;i++)
  for(j=0;j<c2;j++)
   crr1[i][j]=0;
    for(i=0;i<r1;i++)
      {
       for(j=0;j<c2;j++)
        {
          sum=0;
           for(k=0;k<c1;k++)
            sum=sum+arr1[i][k]*brr1[k][j];
            crr1[i][j]=sum;
        }
      }
```

