## Matrix multiplication:

```
#include <stdio.h>
int main()
{
 int m, n, p, q, c, d, k, sum = 0;
 int first[10][10], second[10][10], multiply[10][10];
 printf("Enter number of rows and columns of first matrix\n");
 scanf("%d%d", &m, &n);
 printf("Enter elements of first matrix\n");
 for (c = 0; c < m; c++)
  for (d = 0; d < n; d++)
   scanf("%d", &first[c][d]);
 printf("Enter number of rows and columns of second matrix\n");
 scanf("%d%d", &p, &q);
 if (n != p)
  printf("The multiplication isn't possible.\n");
 else
  printf("Enter elements of second matrix\n");
  for (c = 0; c < p; c++)
   for (d = 0; d < q; d++)
    scanf("%d", &second[c][d]);
  for (c = 0; c < m; c++)
   for (d = 0; d < q; d++)
    for (k = 0; k < p; k++)
     sum = sum + first[c][k]*second[k][d];
    multiply[c][d] = sum;
```