1.

```
#include <stdio.h>
int main() {
   int a[10][10], b[10][10], mul[10][10], r, c, i, j, k;
   printf("Enter the number of rows and columns: ");
   scanf("%d%d", &r, &c);
   printf("Enter elements of first matrix:\n");
   for(i=0; i<r; i++)
      for(j=0; j<c; j++)
         scanf("%d", &a[i][j]);
   printf("Enter elements of second matrix:\n");
   for(i=0; i<r; i++)
      for(j=0; j<c; j++)
         scanf("%d", &b[i][j]);
   printf("Multiplying matrices...\n");
   for(i=0; i<r; i++) {
      for(j=0; j<c; j++) {
         mul[i][j] = 0;
         for(k=0; k<c; k++) {
            mul[i][j] += a[i][k] * b[k][j];
         }
      }
   }
   printf("Resultant Matrix:\n");
   for(i=0; i<r; i++) {
      for(j=0; j<c; j++) {
         printf("%d ", mul[i][j]);
      }
      printf("\n");
   } return 0;
}
```