```
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;
```

}

```
Enter the number of rows and columns: 3 3
Enter elements of first matrix:
1 2 3
1 1 1
3 4 5
Enter elements of second matrix:
1 1 1
2 2 2
3 3 3
Multiplying matrices...
Resultant Matrix:
14 14 14
6 6 6
26 26 26
==== Code Execution Successful ====
```