```
#include <stdio.h>
int main() {
    int a[10][10], b[10][10], c[10][10];
    int r1, c1, r2, c2, i, j, k;
    printf("Enter rows and columns of first matrix: ");
    scanf("%d%d", &r1, &c1);
    printf("Enter rows and columns of second matrix: ");
    scanf("%d%d", &r2, &c2);
    if (c1 != r2) {
        printf("Matrix multiplication not possible.\n");
        return 0;
    }
    printf("Enter first matrix:\n");
    for (i = 0; i < r1; i++)
        for (j = 0; j < c1; j++)
            scanf("%d", &a[i][j]);
    printf("Enter second matrix:\n");
    for (i = 0; i < r2; i++)
        for (j = 0; j < c2; j++)
            scanf("%d", &b[i][j]);
    for (i = 0; i < r1; i++)
        for (j = 0; j < c2; j++) {
            c[i][j] = 0;
            for (k = 0; k < c1; k++)
                c[i][j] += a[i][k] * b[k][j];
        }
 printf("Resultant Matrix:\n");
```

```
    for (i = 0; i < r1; i++) {
        for (j = 0; j < c2; j++)
            printf("%d ", c[i][j]);
        printf("\n");
    }
    return 0;
}
```

Output: