5. 4.

```
#include <stdio.h>

int main() {
    int m, n, p, q, i, j, k;

    Printf("Enter rows & colums of Matrix A:");
    sconf("%d %d", &m, &n);
    int A[m][n];
    Printf("Enter elements of Matrix A;\n");
    for (i=0; i<m; i++)
        for (j=0; j<n; j++)
        sconf("%d", &A[i][j]);

    Printf("Enter rows & colums of matrix B:");
    Sconf("%d %d", &p, &q);
     int B[P][q];
    Printf("Enter element of Matrix B:\n");
    for (i=0; i<p; i++)
      for (j=0; j<q; j++)
          Sconf("%d", &B[i][j]);

if (n != p) {
    Printf("\n Matrix multiplication not possible:\n");
```

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```
    return 0;
}
int c[m][q];
for (i=0; i<m; i++){
    for (j=0; j<q; j++){
        c[i][j] = 0;
        for (k=0; k<n; k++){
            c[i][j] += A[i][k] * B[k][j];
        }
    }
}

Printf("\n Matrix A:\n");
for (i=0; i<m; i++){
    for (j=0; j<n; j++) printf("%d",
                               A[i][j]);
    Printf("\n");
}

Printf("\n Matrix B:\n");
for (i=0; i<p; i++){
    for (j=0; j<q; j++) Printf("%d",
                               B[i][j]);
    Printf("\n");
}
```

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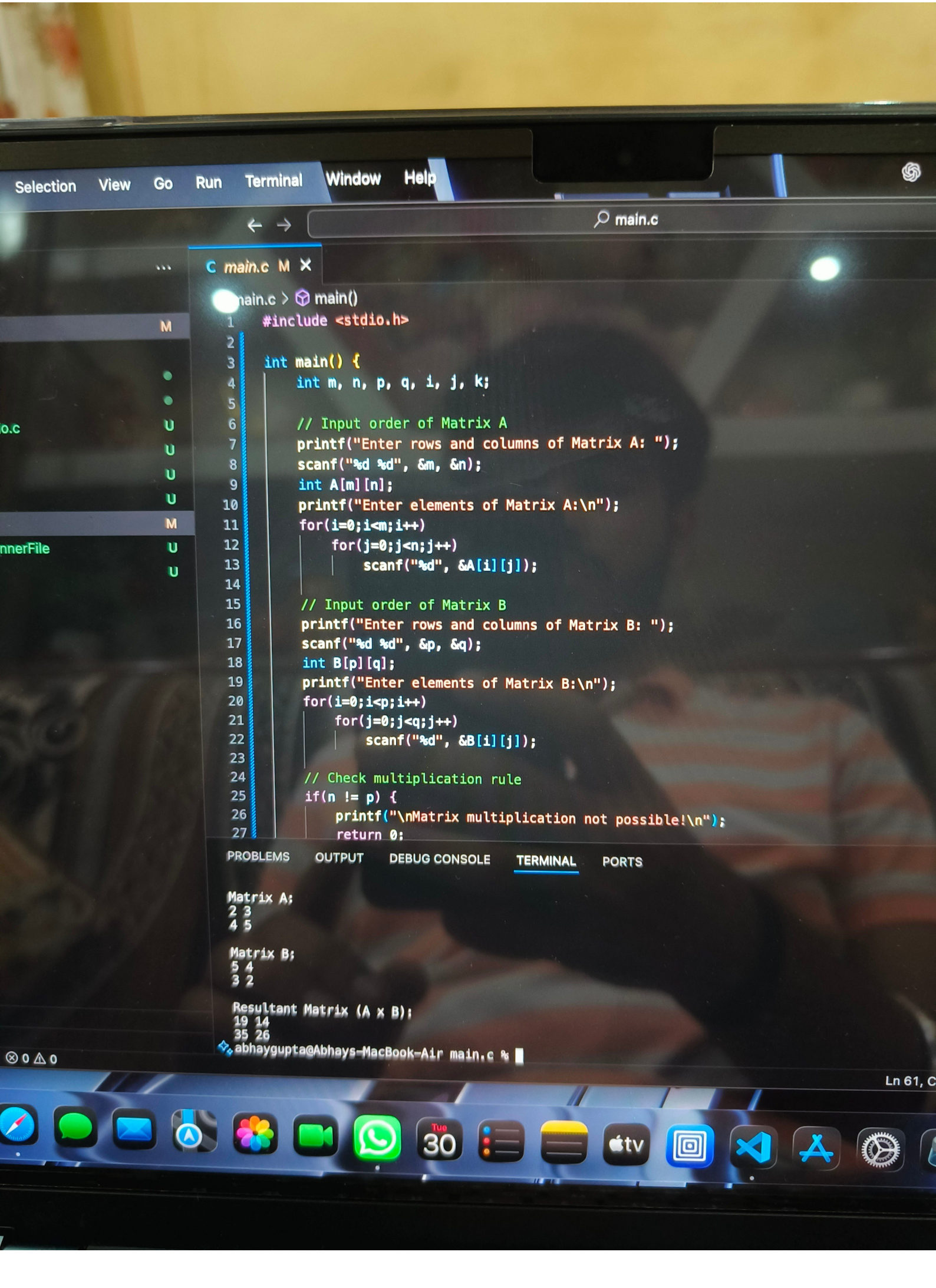
```
Printf ("\n Resultant Matrix(A x B) : \n");
for (i=0; i<m ; i++) {
    for (j=0; j<q ; j++) printf ("%d",
                                 c[i][j]);
Printf ("\n");
}
return 0;
}
```


Selection View Go Run Terminal Window Help
main.c
C main.c M
main.c > main()
#include <stdio.h>
int main() {
int m, n, p, q, i, j, k;
// Input order of Matrix A
printf("Enter rows and columns of Matrix A: ");
scanf("%d %d", &m, &n);
int A[m][n];
printf("Enter elements of Matrix A:\n");
for(i=0;i<m;i++)
for(j=0;j<n;j++)
scanf("%d", &A[i][j]);
// Input order of Matrix B
printf("Enter rows and columns of Matrix B: ");
scanf("%d %d", &p, &q);
int B[p][q];
printf("Enter elements of Matrix B:\n");
for(i=0;i<p;i++)
for(j=0;j<q;j++)
scanf("%d", &B[i][j]);
// Check multiplication rule
if(n != p) {
printf("\nMatrix multiplication not possible!\n");
return 0;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Matrix A:
2 3
4 5
Matrix B:
5 4
3 2
Resultant Matrix (A x B):
19 14
35 26
abhaygupta@Abhays-MacBook-Air main.c %
Ln 61, C