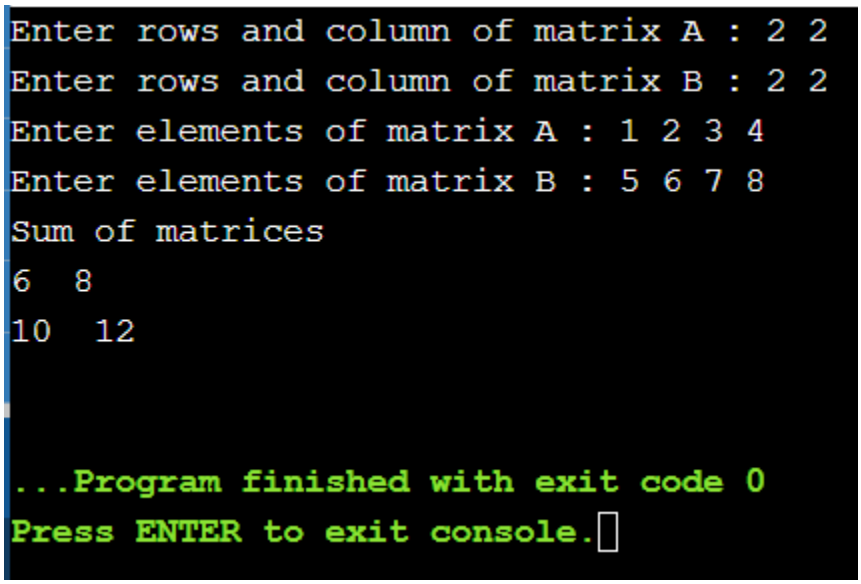
ASSIGNMENT 7: matrix addition
DATE: 24/03/2021

CODE:

```
#include<iostream>
using namespace std;
int main ()
{
   int m, n, p, q, i, j, A[5][5], B[5][5], C[5][5];
   cout << "Enter rows and column of matrix A : ";
   cin >> m >> n;
   cout << "Enter rows and column of matrix B : ";
   cin >> p >> q;
   if ((m != p) && (n != q))
   {
      cout << "Matrices cannot be added!";
      exit(0);
   }
   cout << "Enter elements of matrix A : ";
   for (i = 0; i < m; i++)
      for (j = 0; j < n; j++)
         cin >> A[i][j];
         cout << "Enter elements of matrix B : ";
   for (i = 0; i < p; i++)
      for (j = 0; j < q; j++)
         cin >> B[i][j];
   for (i = 0; i < m; i++)
      for (j = 0; j < n; j++)
         C[i][j] = A[i][j] + B[i][j];
   cout << "Sum of matrices\n";
   for (i = 0; i < m; i++)
   {    for (j = 0; j < n; j++)
         cout << C[i][j] << "  ";
      cout << "\n";
   }
   return 0;
}
```

OUTPUT:


Enter rows and column of matrix A : 2 2
Enter rows and column of matrix B : 2 2
Enter elements of matrix A : 1 2 3 4
Enter elements of matrix B : 5 6 7 8
Sum of matrices
6 8
10 12
...Program finished with exit code 0
Press ENTER to exit console.