Practical 2: Write a program to add and subtract two matrices

```cpp
#include"iostream"

using namespace std;

void entry(int a[2][2]);

void display(int a[2][2]);

void add(int a[2][2],int b[2][2]);

void sub(int a[2][2],int b[2][2]);

int main()

{
        int a[2][2], b[2][2];

        cout<<"For array A:";

        entry(a);

        cout<<"For array B:";

        entry(b);

        cout<<"Array A:\n";

        display(a);

        cout<<"Array B:\n";

        display(b);

        add(a,b);

        sub(a,b);

        return 0;

}

void entry(int a[2][2])

{
        for(int i=0;i<2;i++)

                for(int j=0;j<2;j++)

                {
```

```cpp
                        cout<<"\n Enter Element at location "<<i+1<<","<<j+1<<" : ";

                        cin>>a[i][j];

                }

        }

        void display(int a[2][2])

        {

                for(int i=0;i<2;i++)

                {

                        for(int j=0;j<2;j++)

                        {

                                cout<<a[i][j]<<"\t";

                        }

                        cout<<endl;

                }

        }

        void add(int a[2][2], int b[2][2])

        {

                int c[2][2];

                for(int i=0;i<2;i++)

                        for(int j=0;j<2;j++)

                        {

                                c[i][j]=(a[i][j] + b[i][j]);

                        }

                        cout<<"Addition:\n";

                        display(c);

        }

        void sub(int a[2][2], int b[2][2])
```
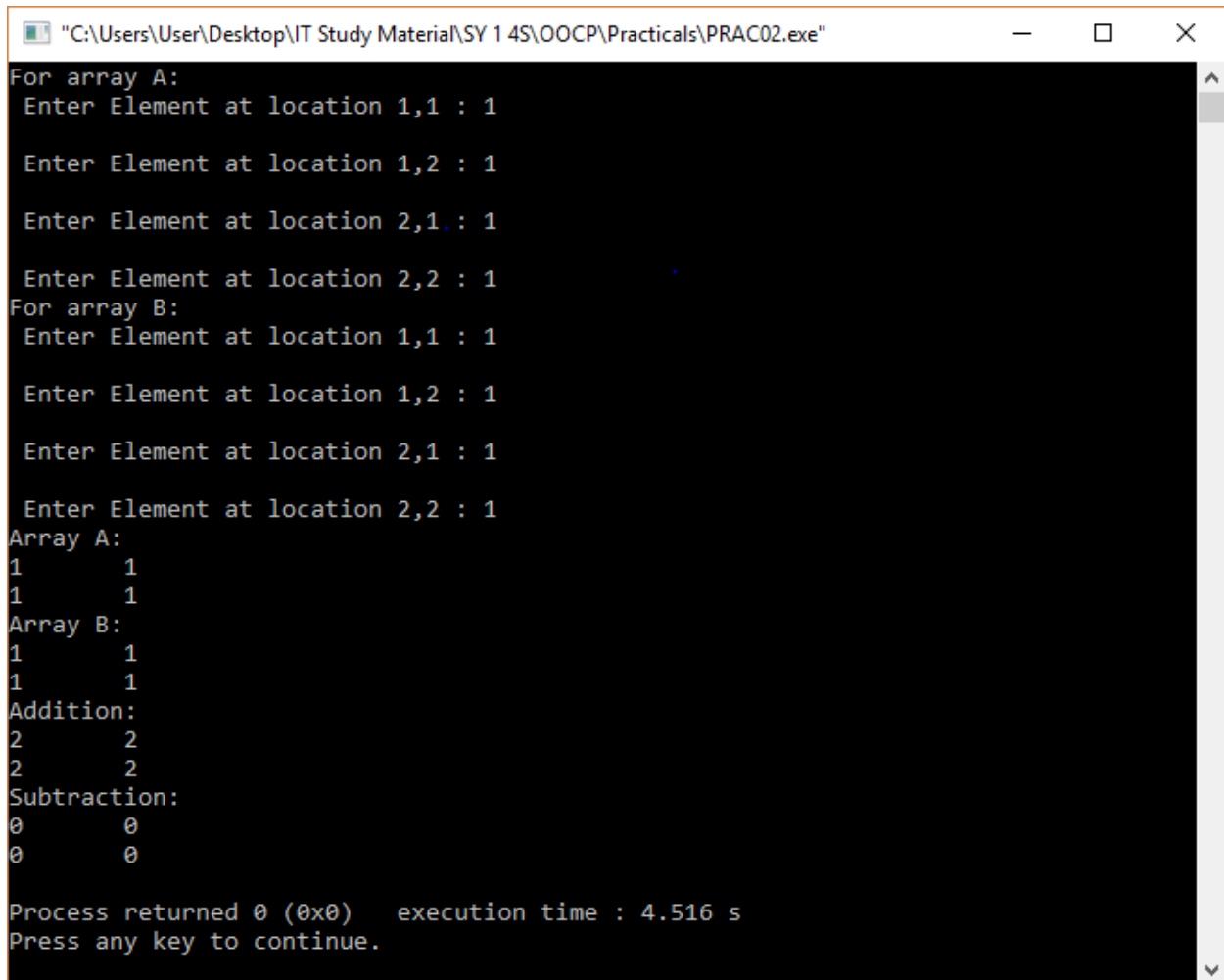
```
{
        int c[2][2];
                for(int i=0;i<2;i++)

                for(int j=0;j<2;j++)

                {

                        c[i][j]=(a[i][j] - b[i][j]);

                }

                cout<<"Subtraction:\n" ;

                display(c);

}
```


"C:\Users\User\Desktop\IT Study Material\SY 1 4S\OOCP\Practicals\PRAC02.exe"   —   □   ×

```
For array A:
 Enter Element at location 1,1 : 1

 Enter Element at location 1,2 : 1

 Enter Element at location 2,1 : 1

 Enter Element at location 2,2 : 1
For array B:
 Enter Element at location 1,1 : 1

 Enter Element at location 1,2 : 1

 Enter Element at location 2,1 : 1

 Enter Element at location 2,2 : 1
Array A:
1       1
1       1
Array B:
1       1
1       1
Addition:
2       2
2       2
Subtraction:
0       0
0       0

Process returned 0 (0x0)    execution time : 4.516 s
Press any key to continue.
```