

מחשוב מקבילי ומבוזר

תרגיל כיתה #4

The purpose of this exercise is to familiarize
with MPI User types

Define a structure

```
struct Data {  
    float a[3];  
    int b;  
    double c;  
};
```

Launch a few processes. Each process will define a structure myStruct with a random values of its members.

Calculate a structure totalStruct of type **Data** with its members equal to sum of all correspondent members defined by each process.

For example, in case of two process:

Process 0:

myStruct = {{1, 2, 3}, 4, 5.6};

Process 1:

myStruct = {{10, 20, 30}, 40, 50.0 };

The struct **totalStruct** will be {{11, 22, 33}, 44, 55.6};

בהצלחה