

Programming Refresher Workshop

Session 5 Exercises

Learning objective:

- Recursion

Exercise 15 (ex15): Sum Array

Write a program to read data into an integer array with at most 10 elements, and sum up all values in the array. Use a recursive function **sum_array(arr,n)** that takes as arguments the array **arr** and the number of array elements **n**. The function returns the sum of the array.

Sample run #1:

```
Enter number of elements: 6
Enter 6 values: 4 3 -2 0 1 3
Array read: 4 3 -2 0 1 3
Sum = 9
```

Sample run #2:

```
Enter number of elements: 8
Enter 8 values: 11 25 56 8 12 7 31 16
Array read: 11 25 56 8 12 7 31 16
Sum = 166
```