

```

1 FUNCTION_BLOCK averageOf1000 : REAL
2 VAR_INPUT
3 END_VAR
4 VAR_IN_OUT
5     values : ARRAY[1..1000] OF REAL;
6 END_VAR
7 VAR
8     sum : REAL;
9     index : INT;
10 END_VAR;

```

Listing 1: function deklaration

```

1 sum := 0;
2 FOR Index := 1 TO 1000 BY 1 DO
3     sum := sum + values[index];
4 END_FOR;
5 averageOf1000 := sum / 1000.0;

```

Listing 2: function block