

```

1  (* A simple calculation program *)
2  FUNCTION_BLOCK averageOf1000 : REAL
3  VAR
4  END_VAR
5  VAR_IN_OUT
6    values : ARRAY[1..1000] OF REAL;
7  END_VAR
8  VAR
9    sum : REAL;
10   index : INT;
11   exampleStr : STRING(20) := 'This is String number 42';
12 END_VAR;

```

Listing 1: function deklaration

```

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

```

Listing 2: function block