

```
1 // lab00, lap procedure, task 2
2
3 // source file for the program sum_numbers
4
5 /*
6  * This file is used to generate an executable program that prints the
7  * sum of the two numbers in binary and hexadecimal format.
8  */
9
10 // Since we will be using our own functions, we need to add the header
11 // file where the functions are declared.
12 // Keep in mind that the header file already includes standard libraries
13 // so they do not to be included here.
14 #include "functions.h"
15
16 // main function
17 int main()
18 {
19     uint16_t num1;
20     uint16_t num2;
21     uint16_t sum;
22
23     printf("write first hexadecimal number");
24     scanf("%x",& num1);
25
26     printf("write second hexadecimal number");
27     scanf("%x",& num2);
28
29     sum = num1 + num2;
30
31     print_bits(sum);
32
33     return 0;
34 }
35
```