

Homework 1

1. Write an application with the following specs:
 - a. It prompts user to input the user's name (assume the user's name is "Tom" as an example)
 - b. It prompts user to input 2 integers (assume user inputs 3 and 4 as an example)
 - c. It then prints the following on screen:

```
Hello Tom,  
the sum of 3 and 4 is 7;  
the ratio of 3 and 4 is 0.75;  
the product of 3 and 4 is 12;  
the squared sum of 3 and 4 is 25.
```

You must use function calls to hide implementation details in the main() function:

```
read_user_name  
read_integer  
add_two_integers  
divided_two_integers  
multiply_two_integers  
sqsum_two_integers
```

2. Write an application that displays the byte size of each of the default data types in your computer:
 - a. char
 - b. short int
 - c. int
 - d. long int
 - e. float
 - f. double

For example, you can use `sizeof(char)` to get the byte size of char data type

Compile each of these two programs, run the programs, take the screen shots of the output. Submit all source code and result screen short online.