

<b>Practical Number</b>	02
<b>Areas covered</b>	Data Input & output

Write a C program for each of the following question

### Question 1

Have the computer print

**HI, HOW OLD ARE YOU?**

on one line. The user then enters his or her age immediately after the question mark. The computer then skips two lines and prints on two consecutive lines.

**WELCOME (age)  
LET'S BE FRIENDS!**

Write a complete C program to do the above.

### Question 2

Write a program which uses the **format commands** with modifiers to print the following output:

<b>2</b>	<b>4</b>	<b>8</b>
<b>3</b>	<b>9</b>	<b>27</b>
<b>4</b>	<b>16</b>	<b>64</b>
<b>5</b>	<b>25</b>	<b>125</b>

**Remark:**

**Observe how format commands are used in the following program.**

```
#include <stdio.h>

int main()
{
    printf("%5d%5d\n", 1, 2); //Right Align
    printf("%5d%5d\n", 10, 20); //Right Align
    printf("\n\n\n");
    printf("%-5d%-5d\n", 1, 2); //Left Align
    printf("%-5d%-5d\n", 10, 20); //Left Align
    return 0;
}
```

**Question 3**

Write a simple program to evaluate the average speed of a car traveled in meters per second ( $\text{ms}^{-1}$ ).  
Given that

$$\text{Average Speed} = \frac{\text{Distance travelled}}{\text{Time taken}}$$

Try using integer variables. What would be the problem? Why? How to fix the problem?

**Question 4**

Convert a temperature reading in degrees Fahrenheit to degrees Celsius, using the formula

$$C = (5 / 9) \times (F - 32)$$

Test the program with the following values: 68, 150, 212, 0, -22, -200 (degree Fahrenheit).