

Week 1-1

ROLL NO : 240801177

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 10 October 2024, 9:25 AM
Duration	74 days 8 hours

Objective

Q1) This is a simple challenge to help you practice printing to stdout.

We're starting out by printing the most famous computing phrase of all time! In the editor below, use either `printf` or `cout` to print the string **Hello, World!** to stdout.

Input Format

You do not need to read any input in this challenge.

Output Format

Print **Hello, World!** to stdout.

Sample Output

Hello, World!

Answer:(penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     printf("Hello, World!");
5
6     return 0;
7 }
```

	Expected	Got	
✓	Hello, World!	Hello, World!	✓

Passed all tests! ✓

Objective

Q2) This challenge will help you to learn how to take a character, a string and a sentence as input in C.

To take a single character **ch** as input, you can use `scanf("%c", &ch);` and `printf("%c", ch)` writes a character specified by the argument `ch` to stdout:

```
char ch;  
  
scanf("%c", &ch);  
  
printf("%c", ch);
```

This piece of code prints the character **ch**.

Task

You have to print the character, **ch**.

Input Format

Take a character, **ch** as input.

Output Format

Print the character, **ch**.

Answer:(penalty regime: 0 %)

```
1 #include<stdio.h>  
2 int main()  
3 {  
4     char ch;  
5     scanf("%c",&ch);  
6     printf("%c",ch);  
7     return 0;  
8 }
```

	Input	Expected	Got	
✓	c	c	c	✓

Passed all tests! ✓

The fundamental data types in c are int, float and char. Today, we're discussing int and float data types.

The printf() function prints the given statement to the console. The syntax is printf("format string",argument_list);. In the function, if we are using an integer, character, string or float as argument, then in the format string we have to write %d (integer), %c (character), %s (string), %f (float) respectively.

The scanf() function reads the input data from the console. The syntax is scanf("format string",argument_list);. For ex: The scanf("%d",&number) statement reads integer number from the console and stores the given value in variable ***number***.

To input two integers separated by a space on a single line, the command is scanf("%d %d",&n, &m), where ***n*** and ***m*** are the two integers.

Task

Your task is to take two numbers of [int data type](#), two numbers of float data type as input and output their sum:

1. Declare **4** variables: two of type int and two of type float.
2. Read **2** lines of input from stdin (according to the sequence given in the 'Input Format' section below) and initialize your **4** variables.
3. Use the **+** and **-** operator to perform the following operations:
 - o Print the sum and difference of two int variable on a new line.
 - o Print the sum and difference of two float variable rounded to one decimal place on a new line.

Input Format

The first line contains two integers.

The second line contains two floating point numbers.

Constraints

- $1 \leq \text{integer variables} \leq 10^4$
- $1 \leq \text{float variables} \leq 10^4$

Output Format

Print the sum and difference of both integers separated by a space on the first line, and the sum and difference of both float (scaled to **1** decimal place) separated by a space on the second line.

Sample Input

```
10 4
4.0 2.0
```

Sample Output

```
14 6
6.0 2.0
```

Explanation

When we sum the integers **10** and **4**, we get the integer **14**. When we subtract the second number **4** from the first number **10**, we get **6** as their difference.

When we sum the floating-point numbers **4.0** and **2.0**, we get **6.0**. When we subtract the second number **2.0** from the first number **4.0**, we get **2.0** as their difference.

Answer:(penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int int1,int2;
5     float float1,float2;
6     scanf("%d %d",&int1,&int2);
7     scanf("%f %f",&float1,&float2) ;
8     printf("%d %d \n",int1+int2,int1-int2);
9     printf("%.1f %.1f",float1+float2,float1-float2);
10    return 0;
11 }
```

	Input	Expected	Got	
✓	10 4 4.0 2.0	14 6 6.0 2.0	14 6 6.0 2.0	✓
✓	20 8 8.0 4.0	28 12 12.0 4.0	28 12 12.0 4.0	✓

Passed all tests! ✓