# LAPORAN PRAKTIKUM PEMROGRAMAN TERSTRUKTUR PRAKTIKUM I – PENDAHULUAN KELAS B



#### Disusun Oleh:

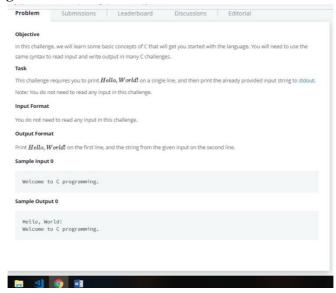
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Hari/Tanggal Praktikum: Selasa, 9 April 2019

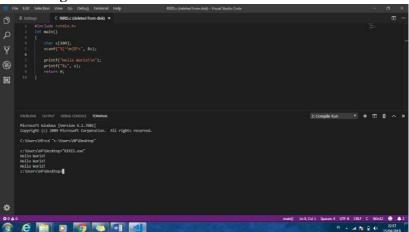
LABORATURIUM KOMPUTASI JURUSAN FISIKA FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UMIVERSITAS BRAWIJAYA 2019

#### A. Tugas 1



#### Jawaban:

**Kode Program 1** 



# Penjelasan

Pada tugas-1 diberikan perintah untuk membuat output berdisplay *'Hello World!'* dan ketika dijalankan maka akan tampil output *Hello World!* 

### B. Tugas 2

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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 char to stdout
  char ch;
scanf("%c", &ch);
printf("%c", ch);
This piece of code prints the character ch
You can take a string as input in C using scanf ("%s", s). But, it accepts string only until it finds the first space.
In order to take a line as input, you can use scanf("%[^\n]%^c", s); where s is defined as char_s[MAX_LEN] where
MAX\_LEN is the maximum size of \emph{s}. Here, [] is the scanset character. ^\n stands for taking input until a newline isn't
encountered. Then, with this %+c, it reads the newline character and here, the used + indicates that this newline character is
Note: After inputting the character and the string, inputting the sentence by the above mentioned statement won't work. This
is because, at the end of each line, a new line character (\n) is present. So, the statement: scanf("%[^\n]%*c", s); will not
work because the last statement will read a newline character from the previous line. This can be handled in a variety of ways
and one of them being: scanf ("\n"); before the last statement.
You have to print the character, ch, in the first line. Then print s in next line. In the last line print the sentence, sen.
First, take a character, ch as input.
Then take the string, a as input.
Lastly, take the sentence sen as input.
```

```
You have to print the character, ch, in the first line. Then print s in next line. In the last line print the sentence, sen.

Input Format

First, take a character, ch as input.

Then take the string, s as input.

Output Format

Print three lines of output. The first line prints the character, ch.

The second line prints the string, s.

The third line prints the sentence, sen.

Sample Input 0

C

Language

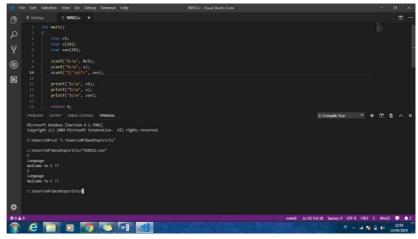
Welcome To C!!

Samplage

Welcome To C!!
```

#### Jawaban

## **Kode Program 2**



# Penjelasan

Pada tugas-2 diberikan perintah output print karakter ch, s, dan sen pada tiga line yang berbeda. Dimana input yang dimasukkan adalah

 $\mathbf{C}$ 

Language

Welcome to C!!

ketika dijalankan pada  $command\ window$  maka akan ditampilkan output

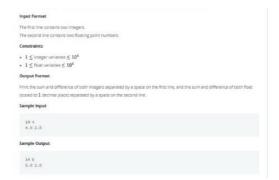
 $\mathbf{C}$ 

Language

Welcome to C!!

### C. Tugas 3

#### The fundamental data types in clare int, float and char. Today, we're discussing int and float data types. The printf() function points the given statement to the console. The system 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 ful (integer), fuc (character), fus (string), ful (float) respectively. $The scanf() \ function \ reads \ the input \ data \ from \ the \ console. The \ syntax \ is \ scanf("format" \ string", argument\_tist) \ j. For \ scanf("format" \ string",$ ex. The scanf ("kid", & number) statement reads integer number from the console and stores the given value in variable \$(a,b) = (a,b) = (a,bTo input two integers separated by a space on a single line, the command is scanif ("Not Not", Am, Am), where is and iss 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: 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 43. Use the + and - operator to perform the following operations: Print the sum and difference of two int variable on a new line. Print the sum and difference of two float variable rounded to one decimal place on a new line. The first line contains two integers. The second line contains two floating point numbers. \* $1 \le \text{integer variables} \le 10^4$ 1 ≤ float variables ≤ 10<sup>4</sup> 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 $\boldsymbol{1}$ decimal place) separated by a space on the second line.



#### Jawaban:

### **Kode Program 3**

### Penjelasan

Pada tugas-3 diberikan perintah untuk mendeklarasikan 4 variabel dimana 2 integer dan 2 float. Kemudian, dibuat program dimana masing-masing variable saling menambahkan dan mengurangi satu sama lain.