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/*-----DOCUMENTATION SECTION-----*/
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/*
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In this section we will discuss about the basic things of the c program.

function: function is a set of instruction in which mutiple line of statement(instruction) are defined.

these instruction can be executed by calling the function by it's name.

global declaration area: it is the area (memory area) outside the every function including main funtion

in which we declare those variable or function, that can be accessed by any function.

int: it is a keyword used to store the integer type values (whole numbers).

float: it is a keyword used to store the decimal type values (deciaml values like 1.24, 3.14).

char: it is keyword used to store the character value in a variable.

const: it is a keyword used to define a variable as constant variable, that can be initialized only once.

const variable value cannot be changed.

void: void is used to define the return type of the function.

return type: if a function return a something to the caller function then the value must be return in

specified data type, that type is called return type.

printf: this function is only used to print/display a message or data to console screen.

To display/print the particular kind of data it need a format specifier for that kind of data type.

scanf: this function is only used to read input data from the user.

To read a particular kind of data it need a format specifier for that kind of data type.

Format Specifier:

format specifier is used to define that what kind of data will be printed on

the console and scanned from the user.

used specifier:-

%c -- to print or scan character type value.

%d -- to print or scan integer type value.

```
*/

#include <stdio.h>

int main(){

    char ch = ' '; // initializing the character type variable ch as ' ' (blank
space).

    printf("Enter your name: "); // Only printing the message.

    scanf("%c", &ch); // reading the first character of the input
//Note: scanf will read only one one character at a time due to using %c.
    printf("Hello %c", ch);
    // printing the ch value which is read/scanned by the scanf function.

    /*
        Now we need to read all the remaining character.
        -> for that we will use the while loop.
        -> below while loop will run until we don't press (hit) Enter.
    */

    while(ch != '\r'){

        // meaning of "ch != '\r'"
        // run the while loop until we don't press the Enter whose special
character value is '\r'.

        // read every character
        scanf("%c", &ch);
        // print every character scanned/read by the scanf function.
        printf("%c", ch);
    }

    // Now we will read all the character of the name.
}
```