

## 2.- ft\_isdigit.-

Function based on the definition given in the BSD man pages for “isdigit”.  
The library associated is <ctype.h>.

**Sinopsis:** int isdigit (int c);

**Purpose:** Checks for a digit character.

**Parameters:**

- c: The character to be checked.

**Return value:**

- 1 if c is a digit character, and 0 otherwise.

**Description:**

The *ft\_isdigit* function checks whether the given character is a digit. A digit character is any character from the set ['0', '9']. The function uses a simple comparison to check if the character's ASCII value falls within this range. If the character falls within this range, it returns 1; otherwise, it returns 0.

**Code:**

```
#include "libft.h"

int    ft_isdigit(int c)
{
    return (c >= '0' && c <= '9');
}
/*
int    main(void)
{
    char    c;

    printf("Input a digit to obtain 1: ");
    scanf("%c", &c);
    printf("%d\n", ft_isdigit(c));
    return (0);
}
*/
```

**Code explanation:**

1. **Include header file:** We include the library **libft.h** where all the required libraries are included.
2. **Define function:** The **int ft\_isdigit(int c)** statement defines the *ft\_isdigit* function. The function takes one argument, **c**, which is the character to be checked.
3. **Return value:** The **return (c >= '0' && c <= '9');** statement returns 1 if **c** is a digit character, and 0 otherwise. This statement checks if the ASCII value of **c** is between 48 (ASCII value of '0') and 57 (ASCII value of '9'). If **c** is within this range, the statement returns 1; otherwise, it returns 0.

4. Under comments we develop a main function to show how it works:

**4.1 Main function:** The `int main()` statement defines the main function, which is the entry point of the program. The main function prompts the user to enter a digit, reads the input character, and prints a message indicating whether the character is a digit.

**4.2 Input digit:** The `scanf("%c", &c);` statement reads a character from the user's input and stores it in the variable `c`.

**4.3 Printf :** we include here `ft_isdigit(c)` which will give us the value 0 or 1 according our previous input in `scanf`.

**4.4 Return value:** The `return (0);` statement exits the program with a status code of 0, indicating that the program executed successfully.