# Welcome, PROGRAMMERS



01.

What is Function?



#### What is

### Function?



#### Function



A function is a self-contained block of code that performs a specific task.

Functions **provide a way** to modularize code, making it more

readable, maintainable, and reusable.

02.

What are Types of Functions?



What are

## Types of Functions?



#### Types of functions



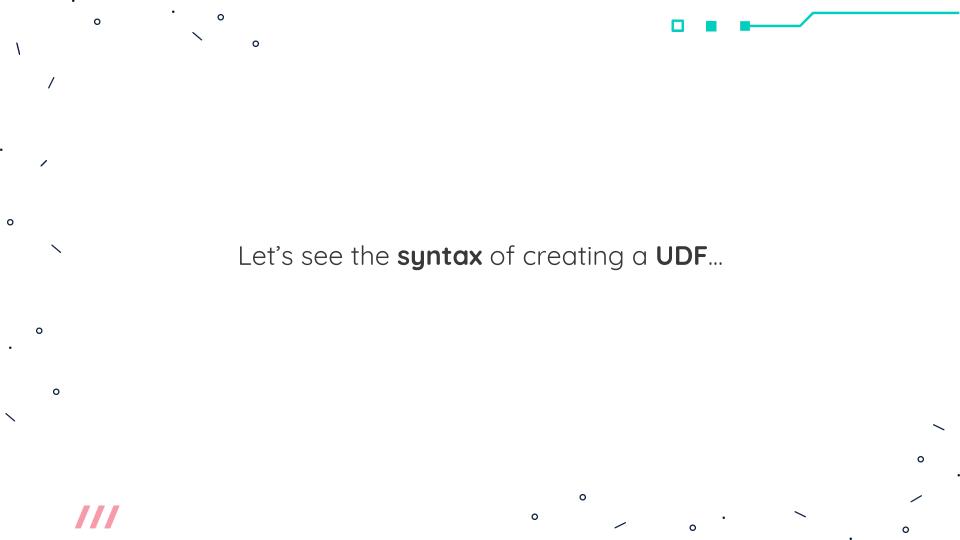
There are mainly **two types** of **functions** available in C language:

**Built-in Functions** 

**Examples:** printf(), scanf(), gets(), puts()

User Defined Functions (UDF)

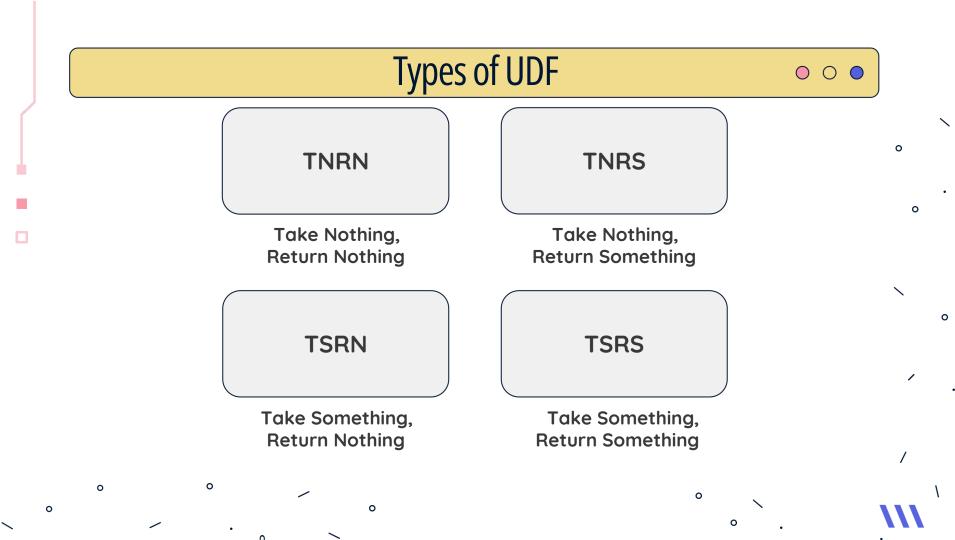
**Examples:** red(), white(), rahul(), bob()

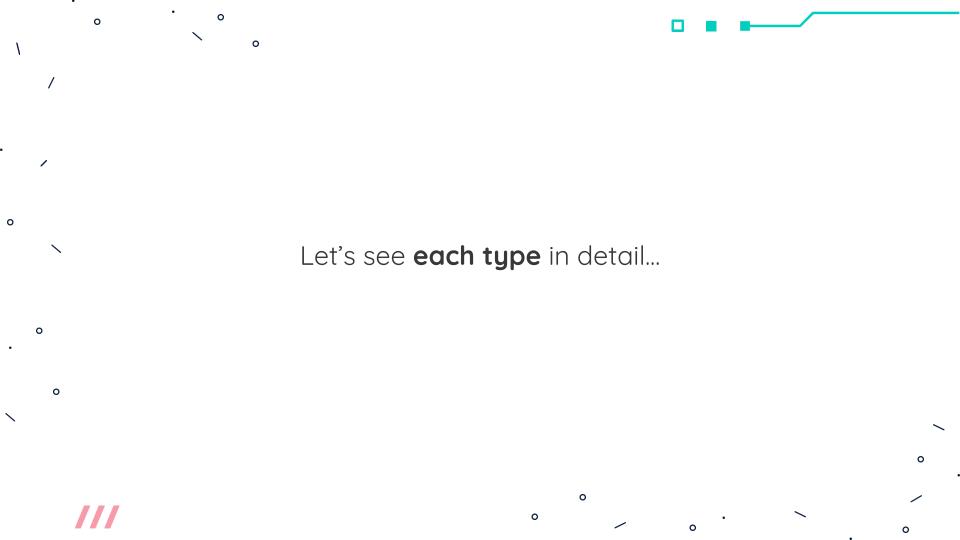


#### Syntax of an UDF



```
return_type function_name(parameters)
{
    // Function body (code)
    return value; // Return statement (optional)
}
```







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#### **TNRN**

Take Nothing, Return Nothing

#### **Example of TNRN**



```
return_type function_name(parameters)
      // Function body (code)
      return value; // Return statement (optional)
                                  void get_quote()
Example
                                      printf("Nothing is impossible.");
```

#### **Use of TNRN function**



```
#include<stdio.h>
Finds the
         // Function Definition
function
        void get_quote()
             printf("Nothing is impossible.");
                                  Replace the output
         void main()
                                  from function body
              get_quote(); // Function Calling
```

// Output:
Nothing is impossible.



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#### **TSRN**

Take Something, Return Nothing

#### **Example of TSRN**



```
return_type function_name(parameters)
{
    // Function body (code)
    return value; // Return statement (optional)
}
```

void addition(int a, int b)
{
 printf("Addition is %d", a+b);
}

#### **Use of TSRN function**



```
#include<stdio.h>
                     Passed in
                    Parameters
void addition(int a, int b)
    printf("Addition is %d", a+b);
                          Replace the output
void main()
                          from function body
     addition(5, 3); // Function Calling
             Ārguments
               Passing
```

// Output: Addition is 8

