

Feel the programs -  
very basic

# CHAPTER 9



**SURESH TECHS**

**C PROGRAMMING COURSE**

# Write your first C program in IDE

- Write a program to print below message to the console in the same format

```
Welcome to suresh techs, I am learning C Programming
```

```
//Author: Suresh
#include<stdio.h>
int main(){
    /*This program is used to display
    simple text message*/
    printf("Welcome to suresh techs, I am learning C Programming");
}
```

# Write your second program

```
Welcome to suresh techs, I am learning C Programming  
Thank you suresh techs, tagged le  
I will subscribe suresh techs channel!
```

```
//Author: Suresh  
#include<stdio.h>  
int main(){  
    /*This program is used to display  
    simple text message*/  
    printf("Welcome to suresh techs, I am learning C Programming\n");  
    printf("Thank you suresh techs, tagged le\n");  
    printf("I will subscribe suresh techs channel!\n");  
}
```

# Escape sequences

- Sequence of characters that doesn't represent itself when used inside string
- It is composed of two or more characters starting with backslash \
- Ex: `\n` represents new line.

Escape sequence	Meaning
<code>\a</code>	Alarm or Beep
<code>\b</code>	Backspace
<code>\f</code>	Form feed
<code>\n</code>	New line
<code>\r</code>	Carriage return
<code>\t</code>	Horizontal tab
<code>\v</code>	Vertical tab
<code>\\</code>	Backslash
<code>\'</code>	Single quote
<code>\"</code>	Double quote
<code>\?</code>	Question mark
<code>\nnn</code>	Octal number
<code>\xhh</code>	Hexadecimal number
<code>\0</code>	Null

# Write your third program

```
Welcome to suresh techs, "I am learning" C Programming  
Thank you suresh techs, tagged le  
I will subscribe suresh techs channel!
```

```
//Author: Suresh  
#include<stdio.h>  
int main(){  
    /*This program is used to display  
    simple text message*/  
  
    printf("Welcome to suresh techs, \"I am learning\" C  
        Programming\n");  
    printf("Thank you suresh techs, tagged le\n");  
    printf("I will subscribe suresh techs channel!\n");  
}
```

# Optimize our code with Macros

```
//Author: Suresh
#include<stdio.h>
#define CHANNEL_NAME "suresh techs"
int main(){
    /*This program is used to display
    simple text message*/

    printf("Welcome to %s, \"I am learning C\" Programming\n",
        CHANNEL_NAME);
    printf("Thank you %s tagged le\n",CHANNEL_NAME);
    printf("I will subscribe %s channel!\n",CHANNEL_NAME);
}
```

# Understand the use of macros

- If you want to change the name suresh techs to suresh techs youtube channel 🤔
- Just change at one place, instead of changing everywhere 😊

# Macro

- Macro definitions **cannot be changed by your program code like variables.**
- use macros when creating constants that represent numbers, strings or expressions.
- Don't end them with ; like statements
- #define CNAME value



# Define AGE macro

```
//Author: Suresh
#include<stdio.h>
#define CHANNEL_NAME "suresh techs"
#define AGE 26
int main(){
    /*This program is used to display
    simple text message*/

    printf("Welcome to %s, \"I am learning C\" Programming\n",
        CHANNEL_NAME);
    printf("Thank you %s tagged le\n",CHANNEL_NAME);
    printf("I will subscribe %s channel!\n",CHANNEL_NAME);
    printf("My age is %d",AGE);
}
```

```
Welcome to suresh techs, "I am learning C" Programming
Thank you suresh techs tagged le
I will subscribe suresh techs channel!
My age is 26
```

# Let's understand program execution

```
//Author: Suresh
#include<stdio.h>
#define CHANNEL_NAME "suresh techs"
#define AGE 26
int main(){
    /*This program is used to display
    simple text message*/

    printf("Welcome to \"%s\", \"I am learning C\" Programming\n",
        CHANNEL_NAME);
    printf("Thank you \"%s\" tagged le\n",CHANNEL_NAME);
    printf("I will subscribe \"%s\" channel!\n",CHANNEL_NAME);
    printf("My age is %d",AGE);
}
```

Or we can use **EXIT\_SUCCESS** from `stdlib.h` header file

<https://code.woboq.org/qt5/include/stdlib.h.html>

Let's  
understand  
this program

```
//Author: Suresh
#include<stdio.h>
#define CHANNEL_NAME "suresh techs"
#define AGE 26
int a = 10;
int b = 20;
int main(){
    /*This program is used to display
    simple text message*/

    printf("Welcome to \"%s\", \"I am learning C\" Programming\n",
        CHANNEL_NAME);
    printf("Thank you \"%s\" tagged le\n",CHANNEL_NAME);
    printf("I will subscribe \"%s\" channel!\n",CHANNEL_NAME);
    printf("My age is %d\n",AGE);
    int sum = getSum();
    printf("Sum is: %d\n",sum);
    printf("My sum is: %d",a+b);
    return 0;
}

int getSum(){
    int sum = a+b;
    return sum;
}
```

} → global declaration

# What we learned?

- Escape sequences
- Macros
- Programming is very easy – fun – with suresh techs channel 😊

# What next?

- Structure of C program

