



NAME : RAVI SHANKAR KUNKEAR
 SUBJECT : C PROGRAMMING LAB

PRACTICAL : 01

BATCH : 05
 FYBVOC : SEM-I (SD)

EXPERIMENT : 01

BASIC C PROGRAM TO PRINT SIMPLE STATEMENT

AIM : Write a C program to print simple strings like “hello world” and “welcome to C programming”

LEARNING OBJECTIVE :

- To understand the structure of a basic C program.
- To learn how to use the printf() function for displaying output.
- To become familiar with input/output functions in the C language.
- To learn how to write, compile, and execute a C program.
- To understand the use of header files like <stdio.h> and <conio.h>.

TOOLS :

Sr. No.	Name Of Resources	Specification	Quantity	Remarks
1.	Hardware	Computer (I3-I5) Ram (Min 2gb)	1	For All Practical
2.	Software	Turbo C/C++	1	For All Practical

THEORY :

a) Input/output functions:-

In C, scanf and printf (I/O) functions are mainly handled through the <stdio.h> header.

Output Functions (Display Data)

printf()

Used to display formatted output on the screen.

Syntax:

```
printf("format string", variables);
```

Example:

```
#include <stdio.h>
```

```
int main() {
```

```
    printf("Hello, World!\n");
```



```
printf("Number: %d", 10);  
return 0;  
}
```

b) Input Functions (Read Data)

scanf()

Reads formatted input from the user.

Syntax:

```
printf("format string", variables);
```

Example:

```
#include <stdio.h>  
int main() {  
    int a;  
    printf(" Enter a Number: \n", );  
    scanf("%d", &a);  
    return 0;  
}
```

ALGORITHM:

Step 1: start.

Step 2: use printf() function to print "Hello, World".

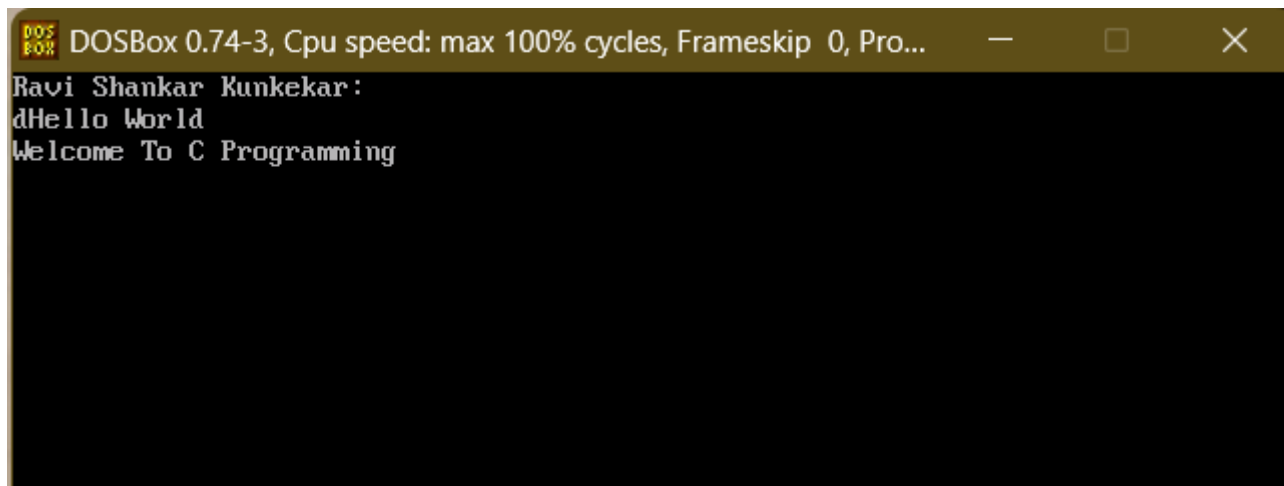
Step 3: use print() to display "

step 3: stop

Source Code:

```
DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Pro...  
File Edit Search Run Compile Debug Project Options Window Help  
LAB1.C  
#include<stdio.h>  
#include<conio.h>  
int main()  
{  
    clrscr();  
    printf("Ravi Shankar Runkekar: \n");  
    printf("Hello World \n");  
    printf("Welcome To C Programming \n");  
    getch();  
    return 0;  
}
```

Output:



```
DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Pro...
Ravi Shankar Kunekar:
Hello World
Welcome To C Programming
```

Result and Discussion:

The program was successfully compiled and executed. The expected message “Hello world, welcome to C programming” was displayed on the screen. This demonstrates the basic syntax and structure of a C program.

Learning Outcomes:

- Students will be able to write and execute a basic C program using the standard syntax.
- Students will understand the role of the main() function and header files in C programming.
- Students will be able to use the printf() function for displaying output on the screen.
- Students will gain hands-on experience in compiling and running a program in a C compiler environment.

Course Outcomes:

- Ability to demonstrate the fundamental structure and execution flow of a C program.
- Ability to apply input/output functions for solving simple problems.
- Ability to identify and explain the purpose of essential components such as header files, functions, and return statements.
- Ability to develop confidence in programming by successfully running simple C programs.

CONCLUSION :

- In this practical, we successfully wrote and executed a simple C program to display the message "Hello World, Welcome To C Programming".
- This helped us understand the basic structure of a C program, the use of header files, and the purpose of the printf() function.
- It also provided a foundation for writing more complex programs in C.



VIVA QUESTIONS :

1. What is the purpose of the printf() function in C?

- It is used to display text, variables, and output on the screen.

2. What is the difference between printf() and scanf()?

- printf() is used for output, while scanf() is used to take input from the user.

3. Why is main() important in every C program?

- It is the entry point of the program where execution starts.

4. Can we print multiple lines using a single printf() function? How?

- yes, by using '\n' inside the string to break lines.

5. What is the use of semicolons in C?

- They mark the end of a statement, similar to a full stop in a sentence.

FOR FACULTY USE ONLY :

Correction Parameters	Formative Assessment [40%]	Timely completion of practical [40%]	Attendance/ Learning Attitude [20%]	
Marks Obtained				