



NAME : VIKAS UPPAR

PRATICAL :01

BATCH:03

SUBJECT : C PROGRAMMING LAB

FYBVOC:SEM-I(AI)

## 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 and syntax of a basic C program.
- To learn how to use the printf() function for displaying text output.
- To become familiar with header files like <stdio.h> and their importance.
- To understand the process of writing, compiling, and executing a C program.
- To gain confidence in using the C compiler for basic output operations.

## 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

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**THEORY:****(a) Introduction to Input/Output Functions in C :-**

In C programming, input and output operations are handled through

**Standard library functions** defined in the header file <stdio.h>.

The two most used functions are:

- **printf()** – used for output or displaying data on the screen.
- **scanf()** – used for taking input from the user.

**Syntax:**

printf("format string", variables);

**Example:**

```
#include <stdio.h>    int main() {  
printf("Hello World\n");  
printf("Welcome to C Programming\n");  
return 0;  
}
```

**(b) Structure of a Simple C Program:**

Every C program includes:

1. **Header File:** #include <stdio.h> – for input/output functions.
2. **Main () Function:** The starting point of program execution.
3. **printf():** Used for displaying output.
4. **return 0;** Marks successful program completion.

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**ALGORITHM:**

- Step 1:** Start the program.
- Step 2:** Include the header file `<stdio.h>`.
- Step 3:** Define the main function.
- Step 4:** Use `printf()` to print text messages.
- Step 5:** Return 0 and stop.

**INPUT:**

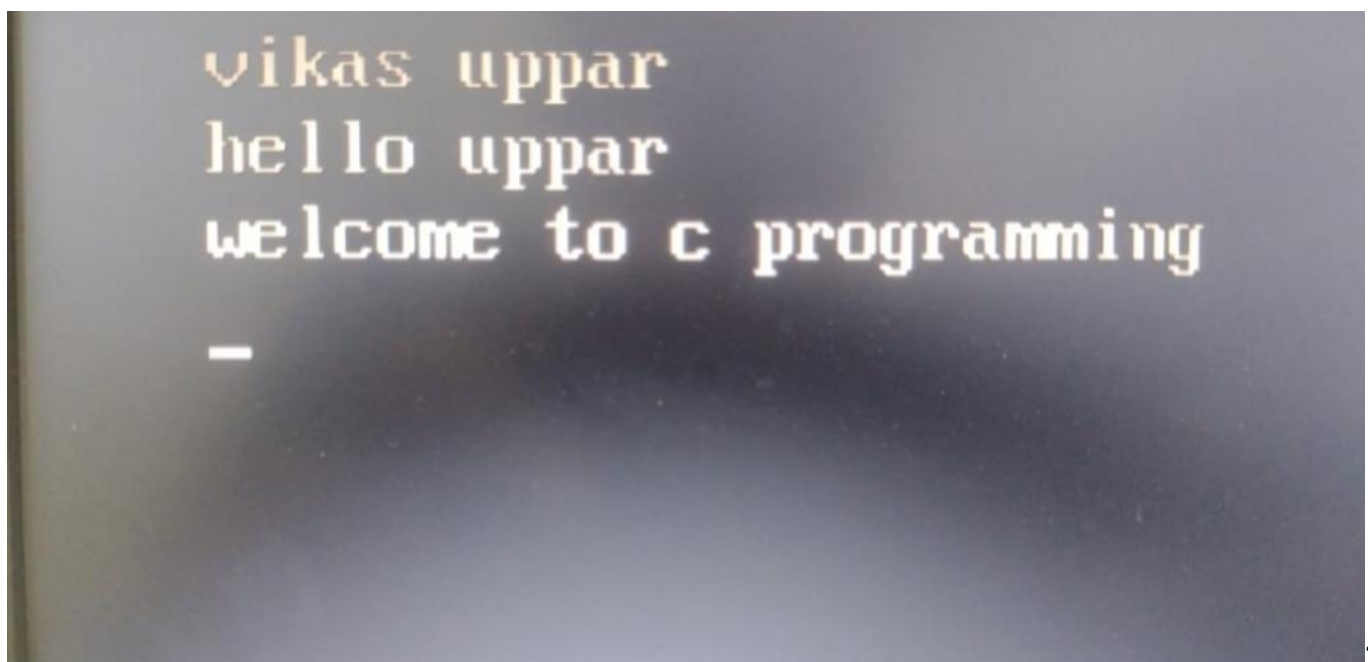
```
#include<stdio.h>
#include<conio.h>

int main() {
printf("vikas uppar\n");
printf("hello uppar\n");
printf("welcome to c programming\n");
getch();
return 0;
}
```

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**OUTPUT:**

3

**RESULT & DISCUSSION:**

The program successfully printed both messages. This practical helped in understanding the syntax and structure of a C program and how the **printf()** function displays text.

**LEARNING OUTCOME:**

- Learned the use of printf() for output display.
- Understood the structure and syntax of a basic C program.
- Gained knowledge of header files and escape sequences.

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- Developed confidence in writing and executing simple programs.

**COURSE OUTCOME:**

- Ability to write and execute simple C programs.
- Understanding of how input/output functions work.
- Ability to identify components of a C program like main(), return, and headers.
- Improved logical thinking and programming skills.

**CONCLUSION:**

- The program successfully printed text messages using the printf() function.
- The practical helped in learning the basic structure of a C program.
- The use of escape sequences and syntax of C language became clear.
- This experiment created a strong foundation for learning further C programming concept.

**VIVA QUESTIONS:****1. What does the printf() function do?**

- It displays text and variable values on the output screen.

**2. Why do we include <stdio.h>?**

- Because it contains the declarations for input/output functions.

**3. What is the role of main()??**

- It is the entry point of every C program where execution begins.





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## 4. What is the use of \n?

- It moves the cursor to the next line for better formatting.

## 5. What does return 0; indicate?

- It means the program ended successfully without any errors.

### FOR FACULTY USE ONLY :

Correction Parameters	Formative Assessment [40%]	Timely Completion Of Practical [40%]	Attendance/ Learning Attitude [20%]	
Marks Obtained				