printf(): It is the major output function in C.

It is a predefined function available in standard input output header file.

Printf always refers standard output device i.e. monitor.

In printf, f means formatted.

Syntax:

```
int printf("[text] [ conversion characters / format
specifiers] " [ , variables ] [ , expressions ] );
```

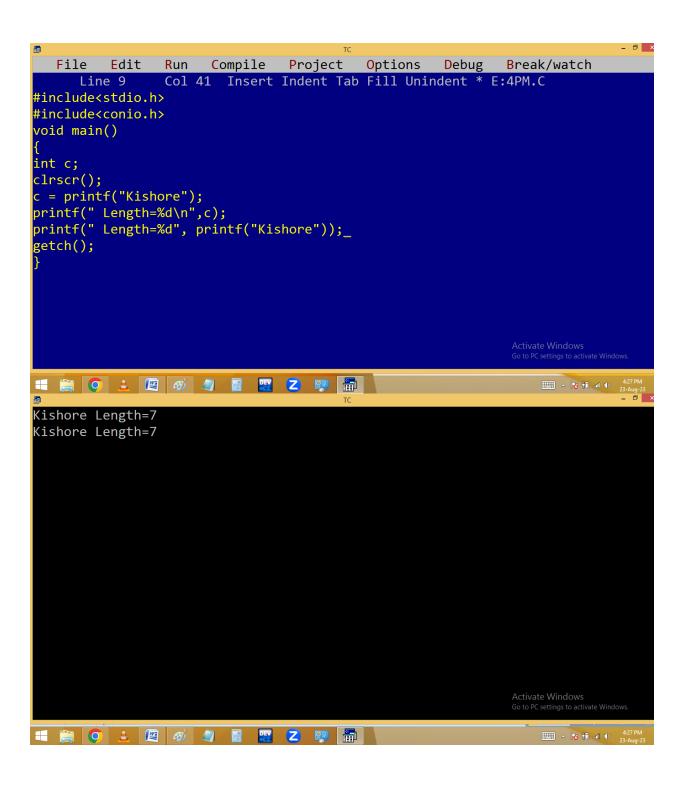
Note:

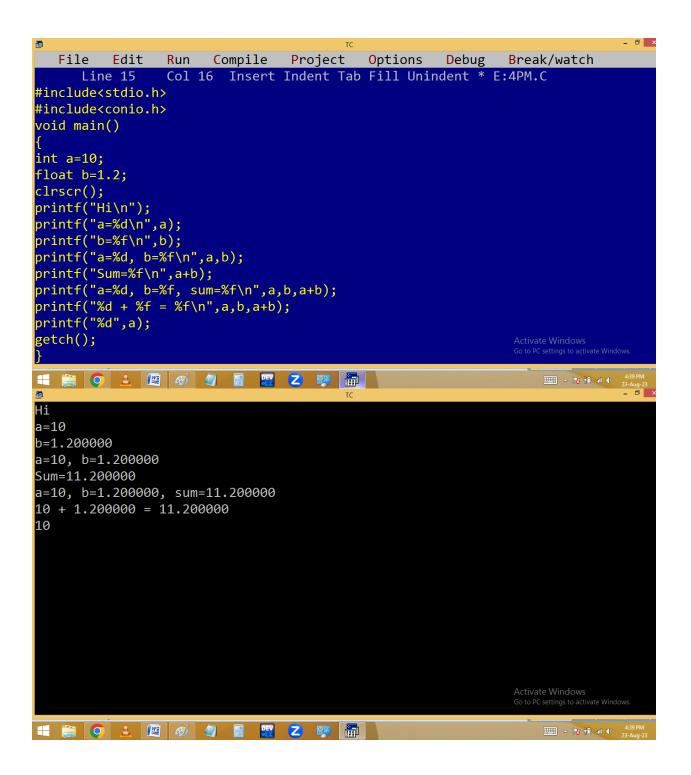
- 1. In printf the first argument should be in "".
- 2.In printf execution order is right to left and printing is left to right.
- 3. Printf always return an int that indicates the visible characters in printf.
- 4. Printf can perform both formatted and unformatted operations.

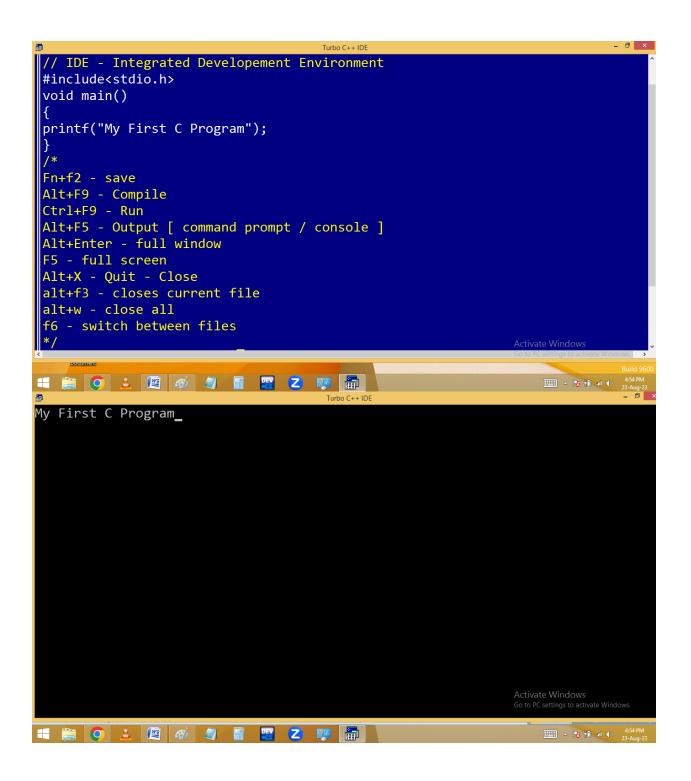
```
Eg:
printf("Hi"); // unformatted
printf("%d",10); //formatted
```

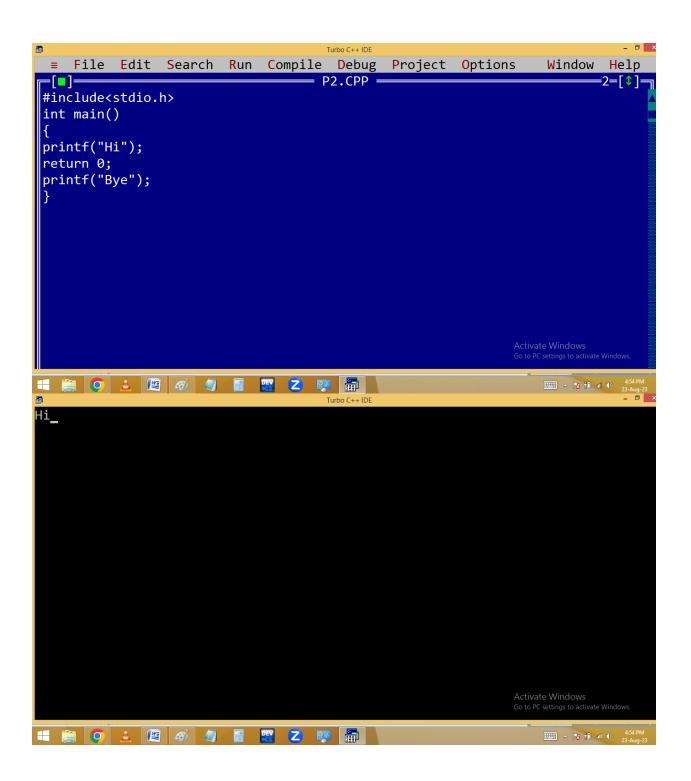
5.In printf everything is printed as it is except conversion characters and back slash characters.

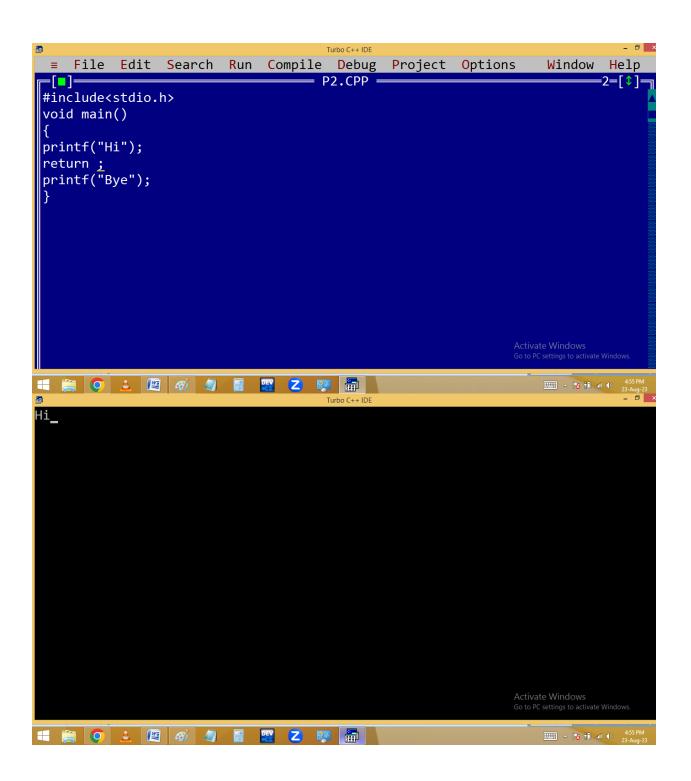
Ex: Write a C program to find string length without using strlen() or loop.

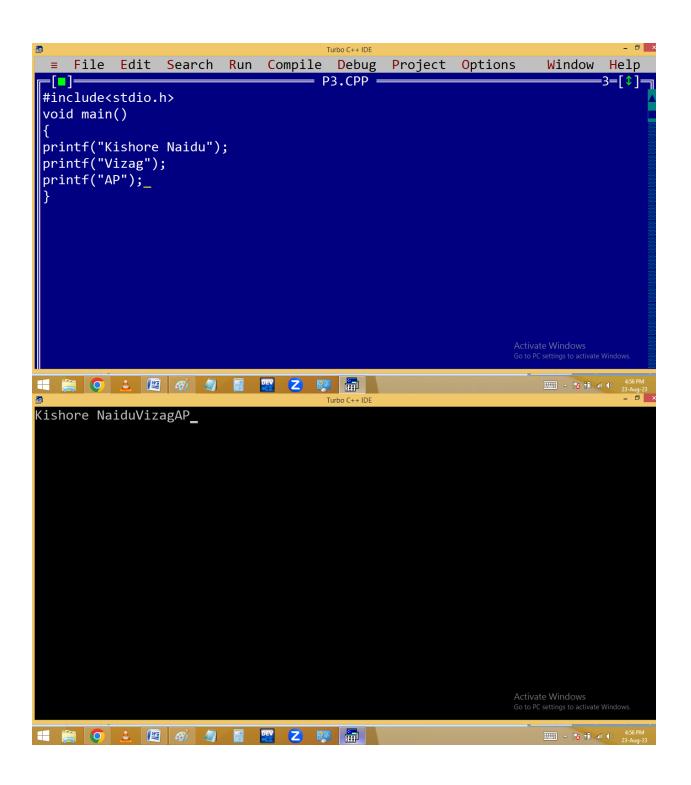


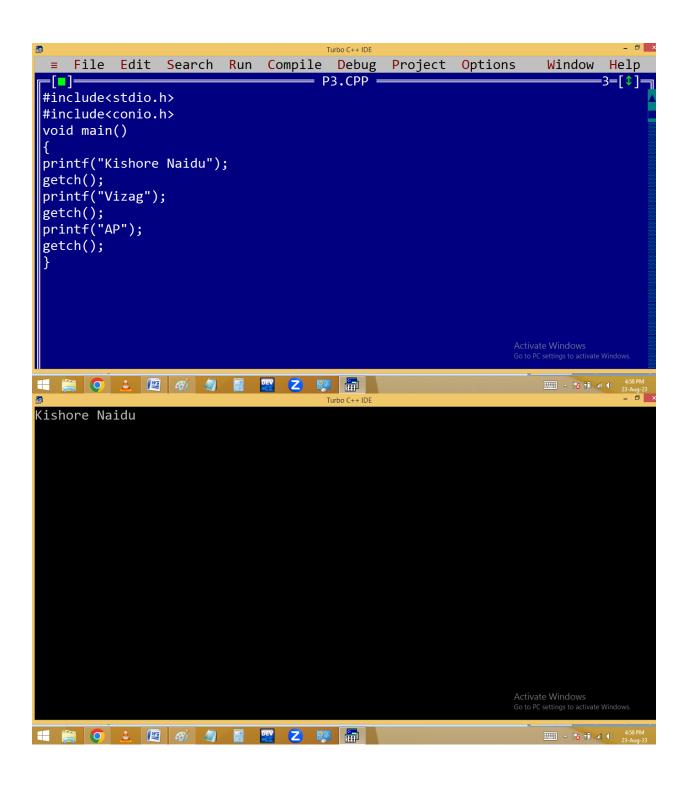


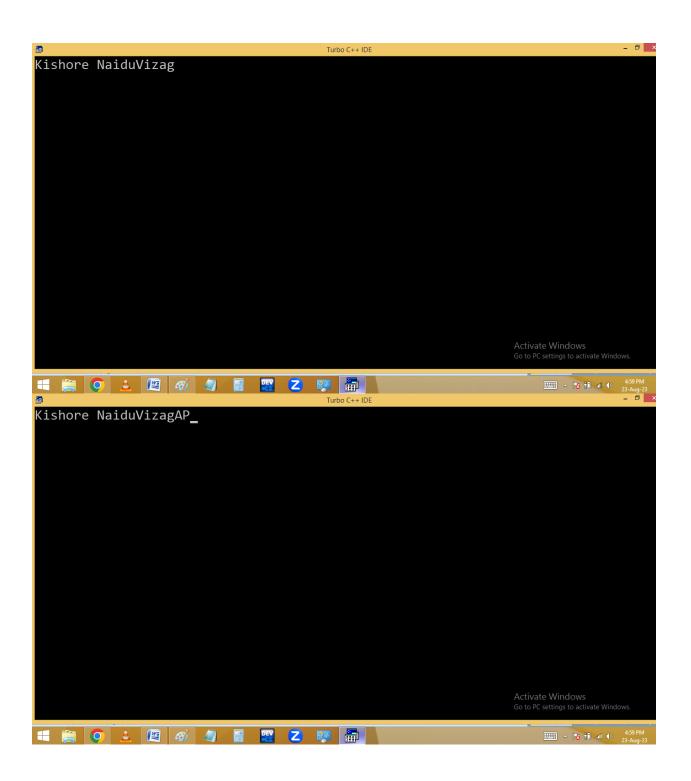


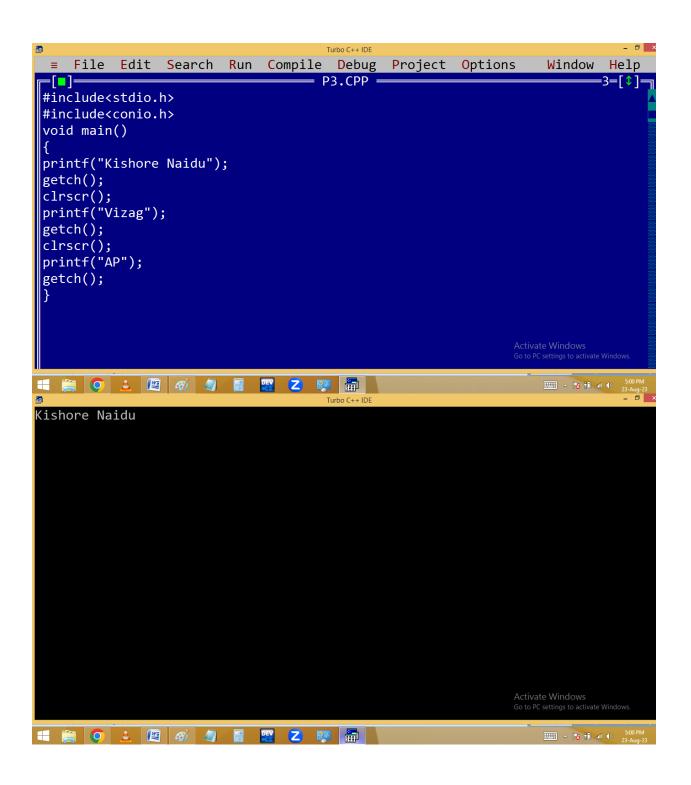


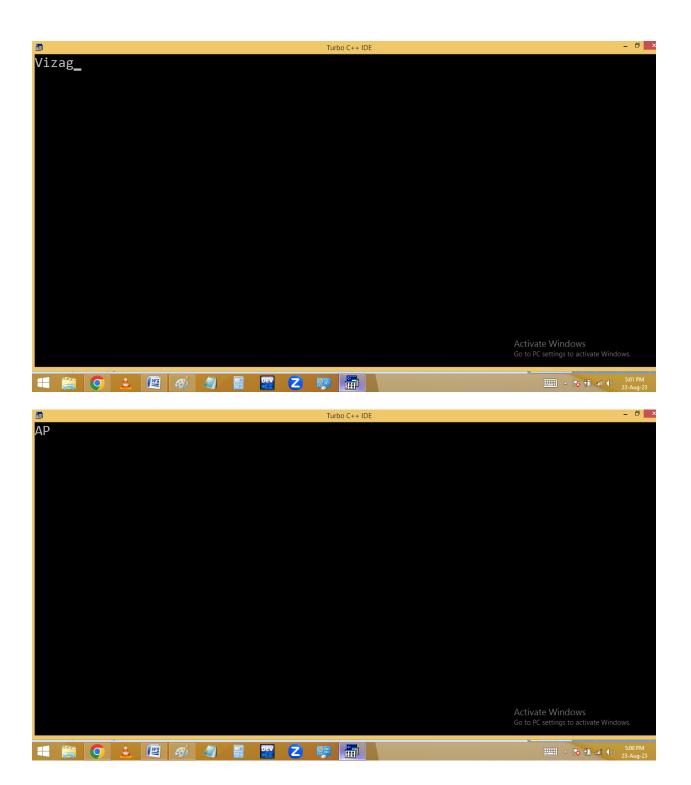












```
_ 🗇 ×
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug p2.cpp
             1 #include<stdio.h>
             2 #include<conio.h>
             3 #include<stdlib.h>
            5 早 {
             6
                    printf("Kishore Naidu");
             7
                  getch();
                  system("cls");
printf("Vizag");
getch();
             8
             9
            10
                  system("cls");
            11
                  printf("AP");
            13
                   getch();
            14
            15 <sup>[</sup> }
            16 // f9-compile
17 // f10 - run
18 // f11 - compile and run
Compiler Resources Compile Log 🗸 Debug 🗓 Find Results
Line: 3 Col: 19 Sel: 0 Lines: 18 Length: 259
```

BACK SLASH / ESCAPE SEQUENCE CHARACTERS

They started with back slash $[\]$.

They used to format the outputs.

They participated in program execution but not displayed in output. Hence they are also called **escape sequence characters**.

Each back slash character=1 byte i.e. one character.

BACK SLASH CHARACTER	DESCRIPTION
\a	Alert [beep sound]
\b	Back space
\n	New line character

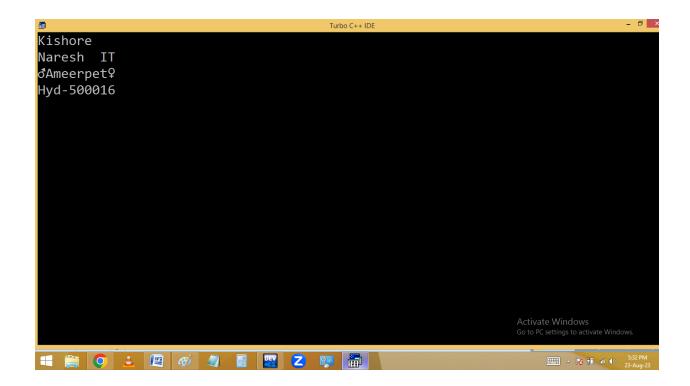
\t	Tab space
\r	Carriage return[beginning of
	line]
\f	Q
	Form feed +
\v	Vertical tab
\0	Null char
\\	\ [invalid]
\k	k [invalid]

```
File Edit Search Run Compile Debug Project Options Window Help

P3.CPP

#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("\aKishore\0Naidu");
printf("\nNaresh\tIT\n");
printf("S\b\vAmeerpet\f");
printf("\nSec-500016\rHyd");
getch();
printf("\a");
}

Activate Windows
Go to PC settings to activate Windows.
```

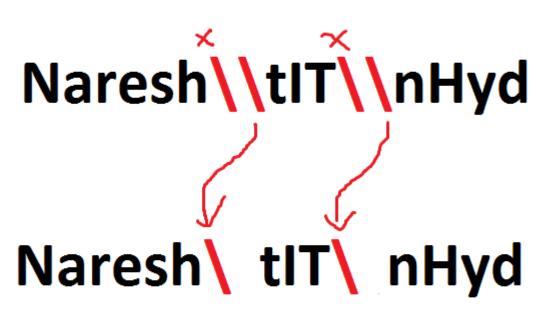


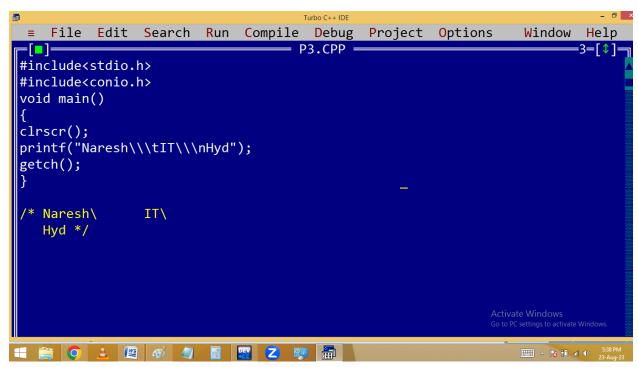
```
File Edit Search Run Compile Debug Project Options Window Help

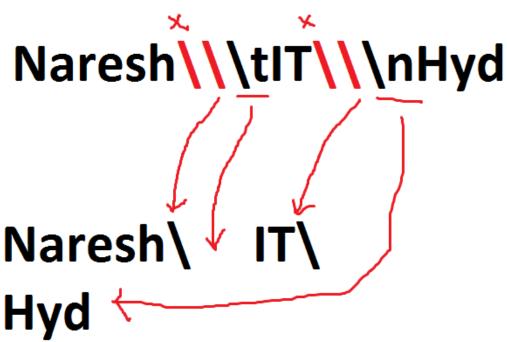
#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Naresh\\tIT\\nHyd");
getch();
}

/* Naresh\tIT\nHyd */_

Activate Windows
Go to PC settings to activate Windows.
```









```
File Edit Search Run Compile Debug Project Options Window Help

P3.CPP

#include<stdio.h>
#include<conio.h>
void main()
{
clrscr();
printf("Krish %c Radha",3);
getch();
}

Activate Windows
Go to PC settings to activate Windows.
```

