printf():

It is the major output function in C.

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

It belongs to standard input output header file i.e. <stdio.h>

In printf, f means formatted.

Syntax:

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

Note:

1. Printf always return int that indicates the no of characters in “ “.
2. In printf the first argument should be in “ “.
3. Printf can perform both formatted and unformatted outputs.
   Eg.
   printf(“Hi”); ➔ unformatted

printf(“**%d**”,10); ➔ formatted

4. In printf everything printed as it is except back slash characters and conversion characters.
   Eg: printf(“Hi\nHello-%d”,10);
   Output:
   Hi
   Hello-10
5. In printf execution order is right to left and printing is left to right.
   Eg:
   int a=10;
   Printf(“%d, %d”, a=100, ++a, a=1);
   100, 2

Eg.

printf(“Hi”);➔ Hi

int a=10;

float b=1.2;

printf(“a=”); ➔ a=

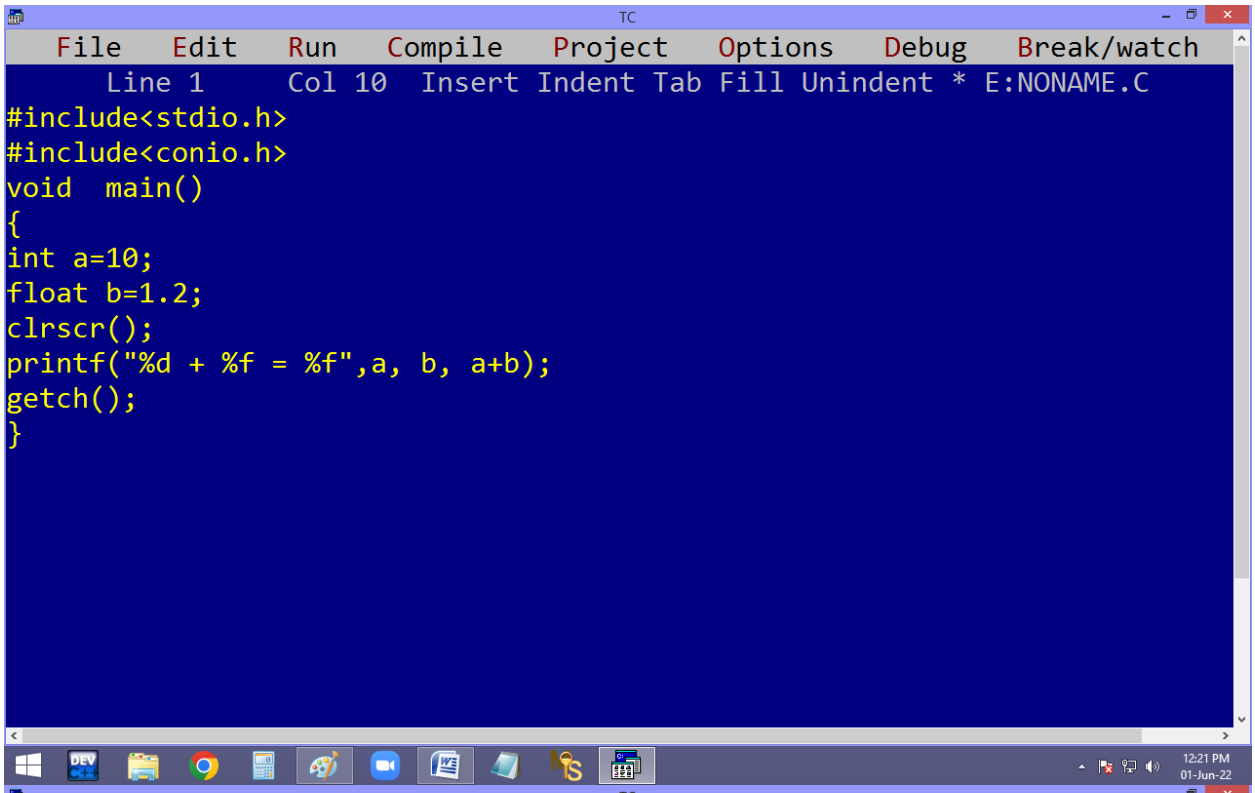
printf(“a=%d”,a); ➔ a=10

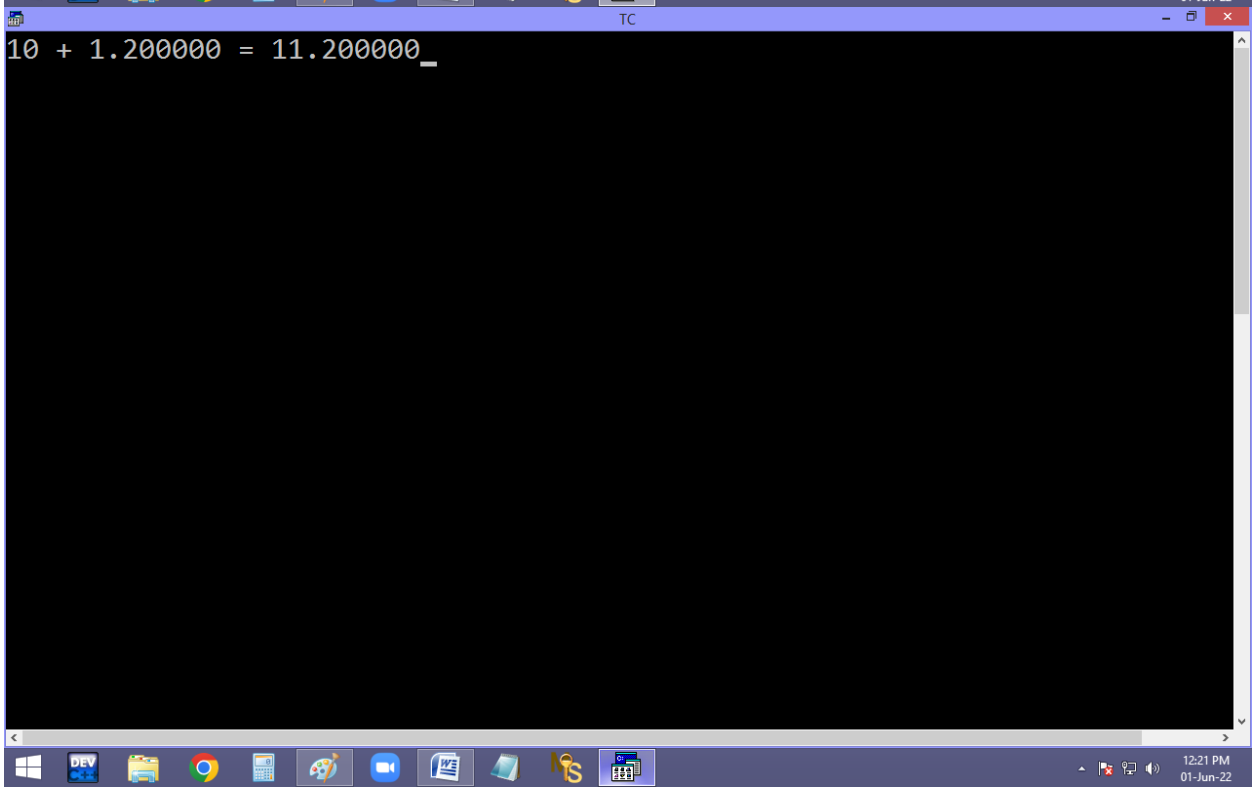
printf(“a=%d, b=%f”,a,b);➔a=10, b=1.200000

printf(“Sum=%f”,a + b); ➔ sum = 11.200000

printf(“a=%d, b=%f,sum=%f”,a,b,a+b);

printf(“%d”,a); ➔ 10


TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 10 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a=10;
float b=1.2;
clrscr();
printf("%d + %f = %f",a, b, a+b);
getch();
}
12:21 PM
01-Jun-22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10 + 1.200000 = 11.200000
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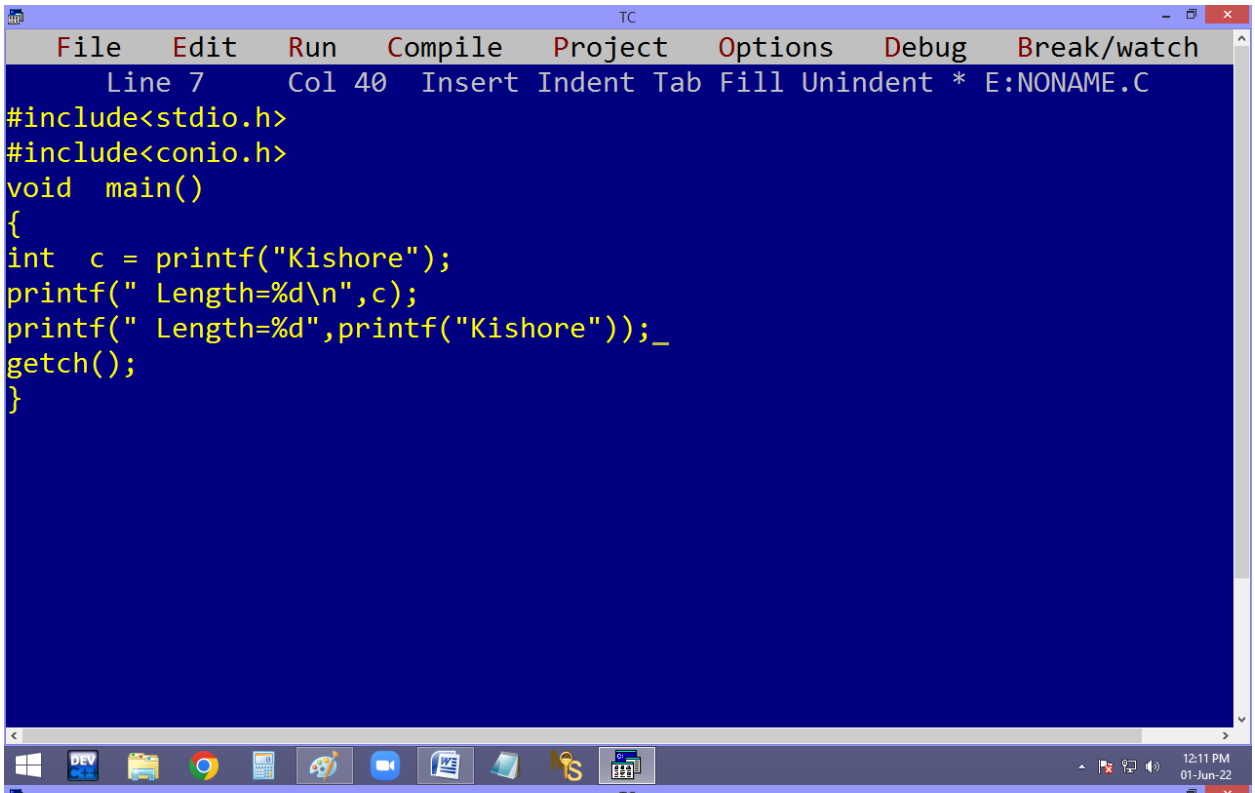
01-Jun-22

eg. write a program to find the string length without using loop / strlen( ).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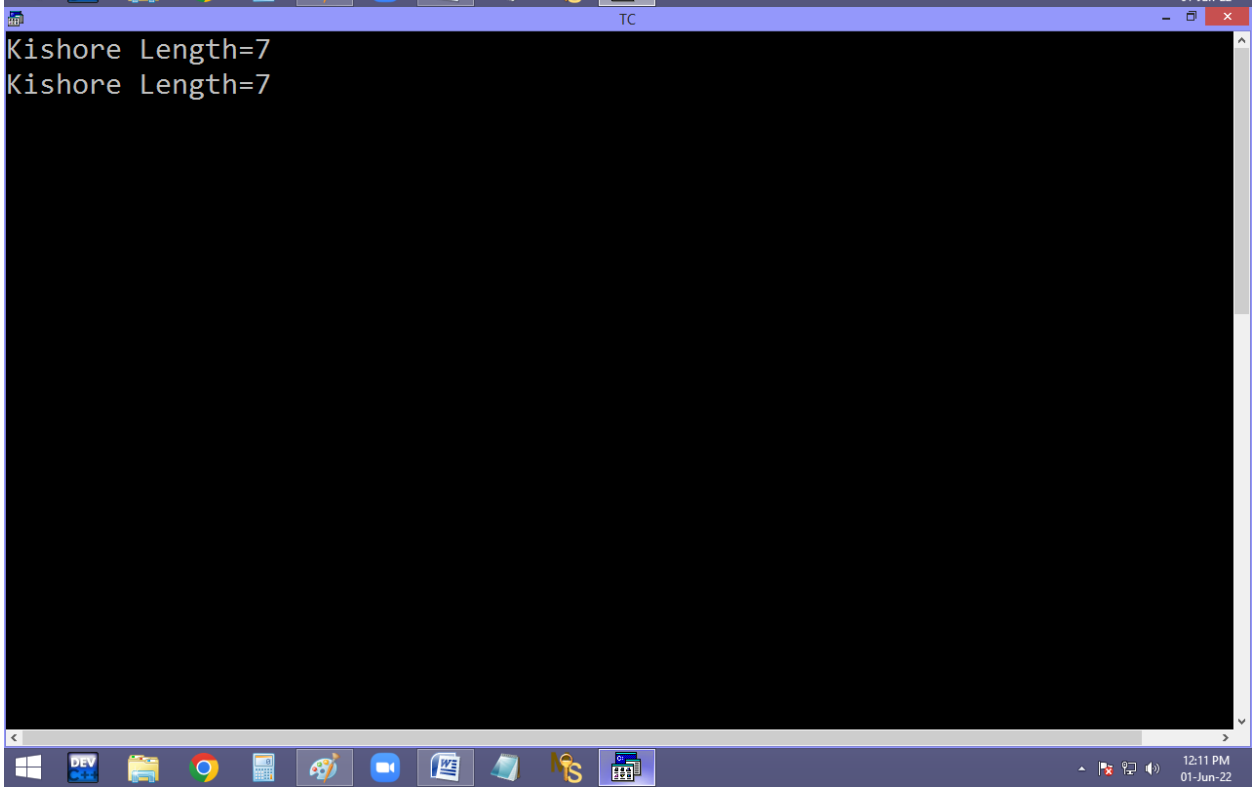
Line 7 Col 40 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
int c = printf("Kishore");
printf(" Length=%d\n",c);
printf(" Length=%d",printf("Kishore"));
getch();
}
12:11 PM
01-Jun-22


TC
Kishore Length=7
Kishore Length=7
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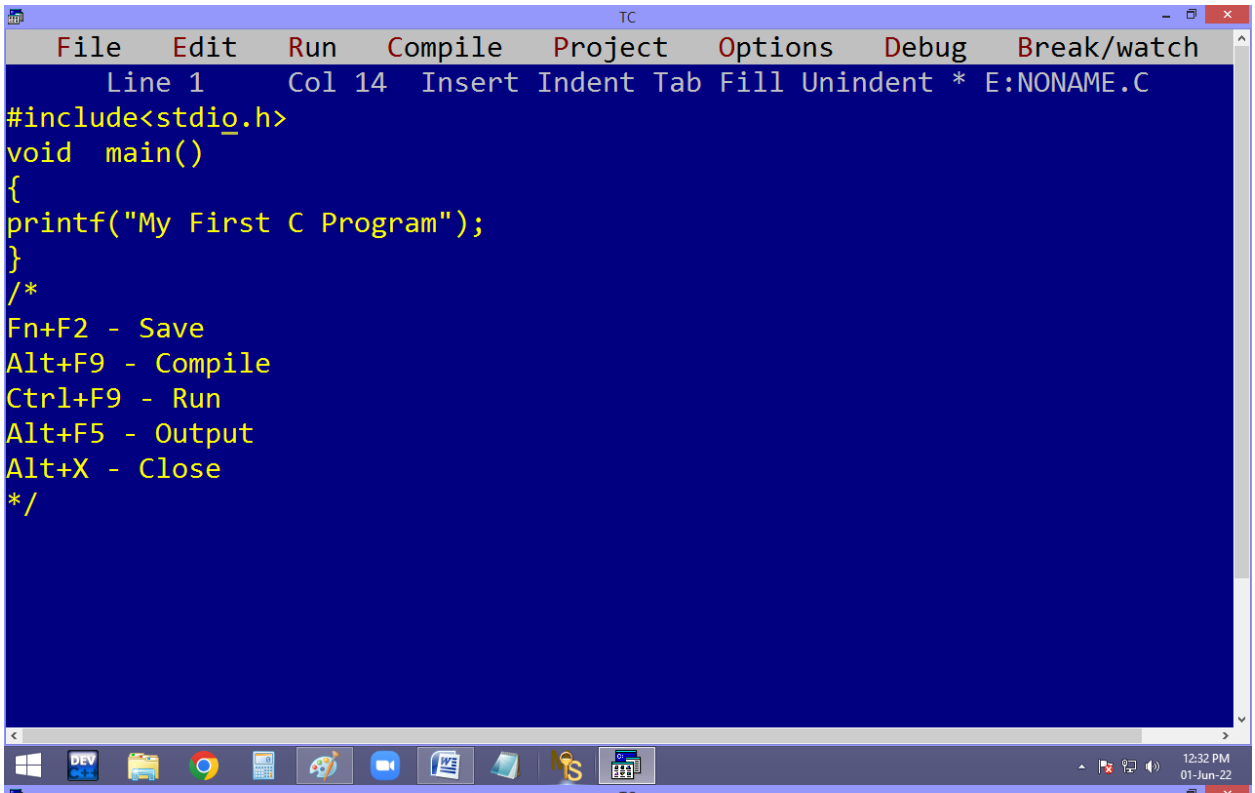
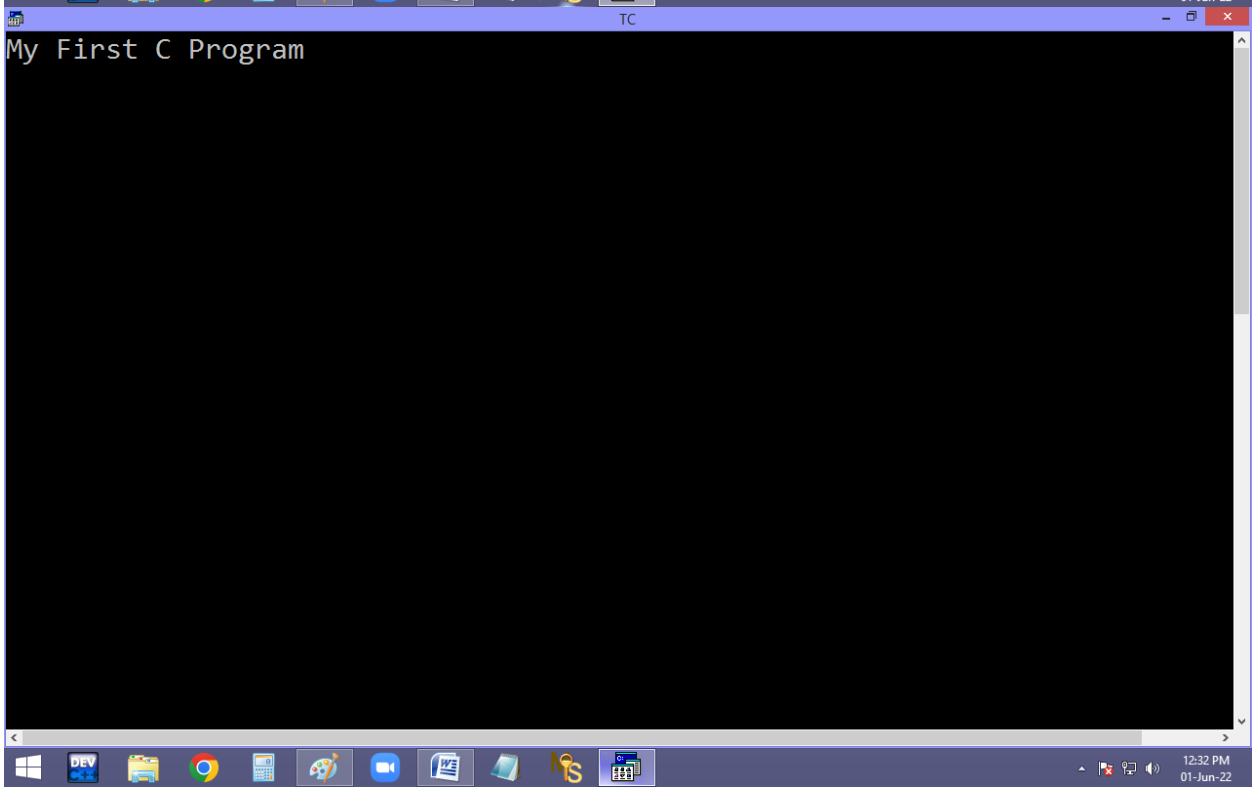
01-Jun-22


TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 14 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
void main()
{
printf("My First C Program");
}
/*
Fn+F2 - Save
Alt+F9 - Compile
Ctrl+F9 - Run
Alt+F5 - Output
Alt+X - Close
*/
12:32 PM
01-Jun-22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My First C Program
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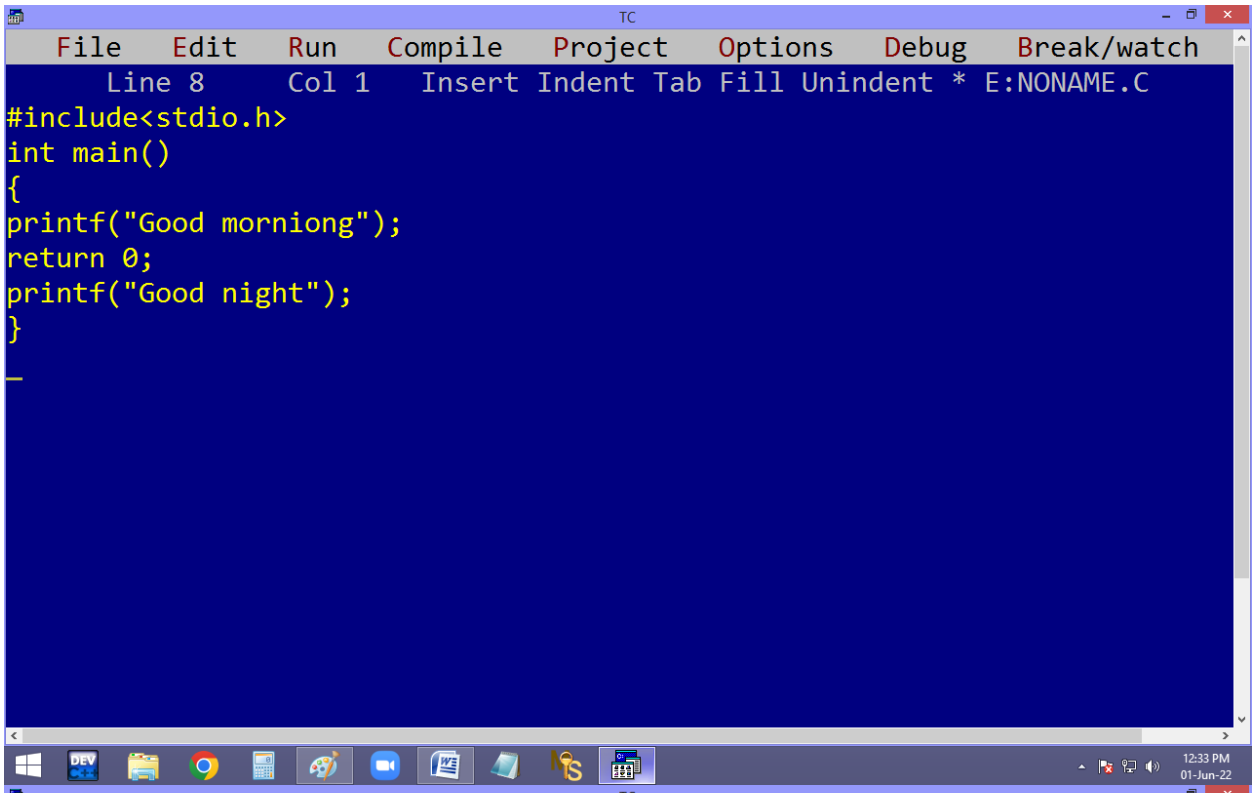
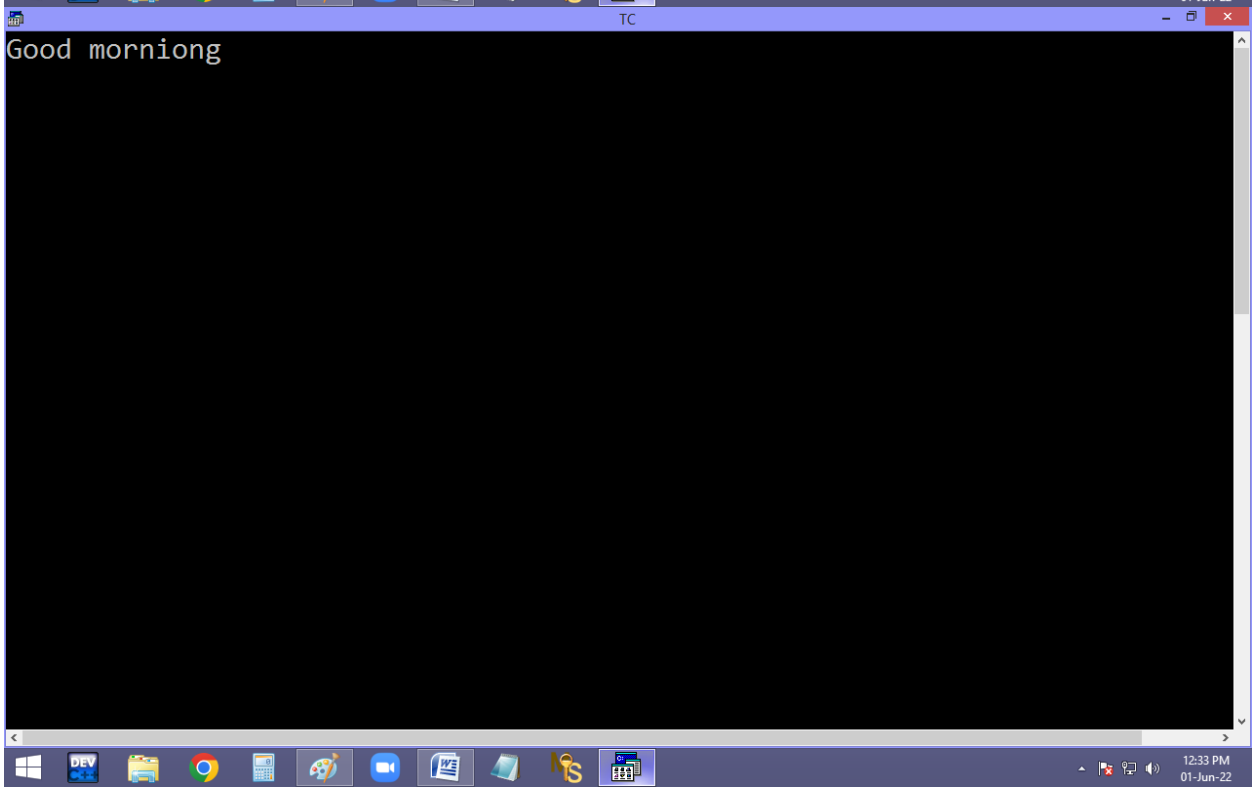
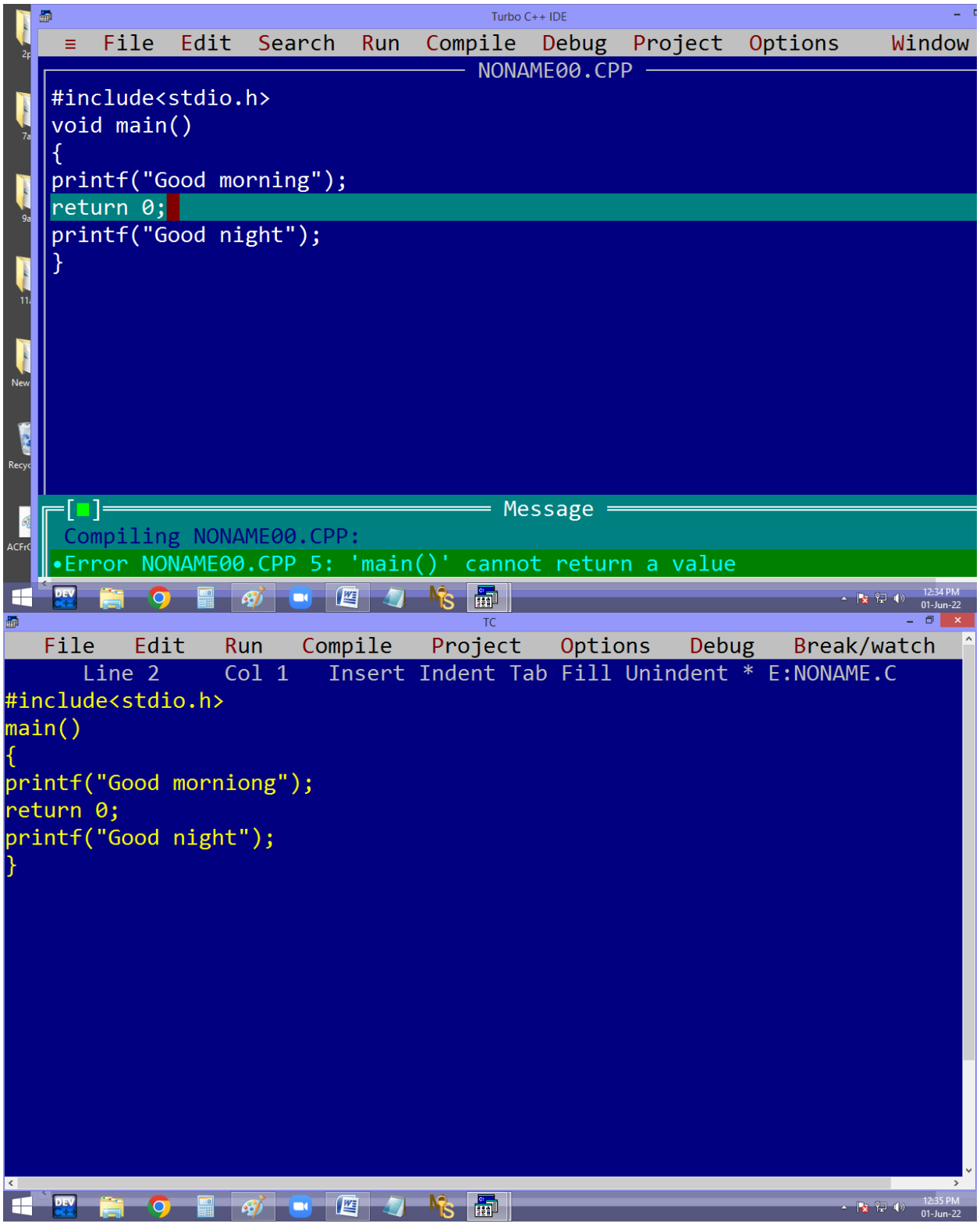
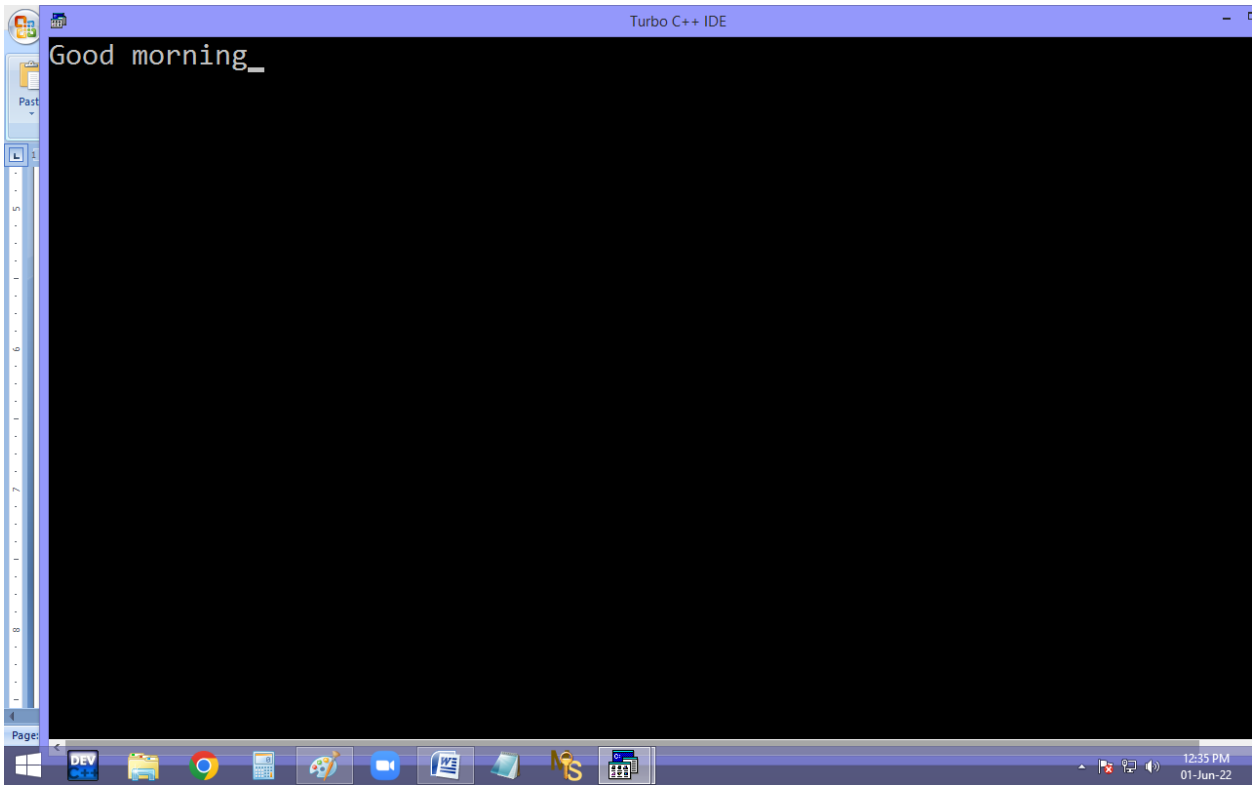

TC
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 1 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
int main()
{
printf("Good morniong");
return 0;
printf("Good night");
}
12:33 PM
01-Jun-22


TC
Good morniong
12:33 PM
01-Jun-22


Turbo C++ IDE
File Edit Search Run Compile Debug Project Options Window
NONAME00.CPP
#include<stdio.h>
void main()
{
printf("Good morning");
return 0;
printf("Good night");
}
Message
Compiling NONAME00.CPP:
•Error NONAME00.CPP 5: 'main()' cannot return a value
TC
File Edit Run Compile Project Options Debug Break/watch
Line 2 Col 1 Insert Indent Tab Fill Unindent * E:NONAME.C
#include<stdio.h>
main()
{
printf("Good morniong");
return 0;
printf("Good night");
}


Turbo C++ IDE
Good morning_
12:35 PM
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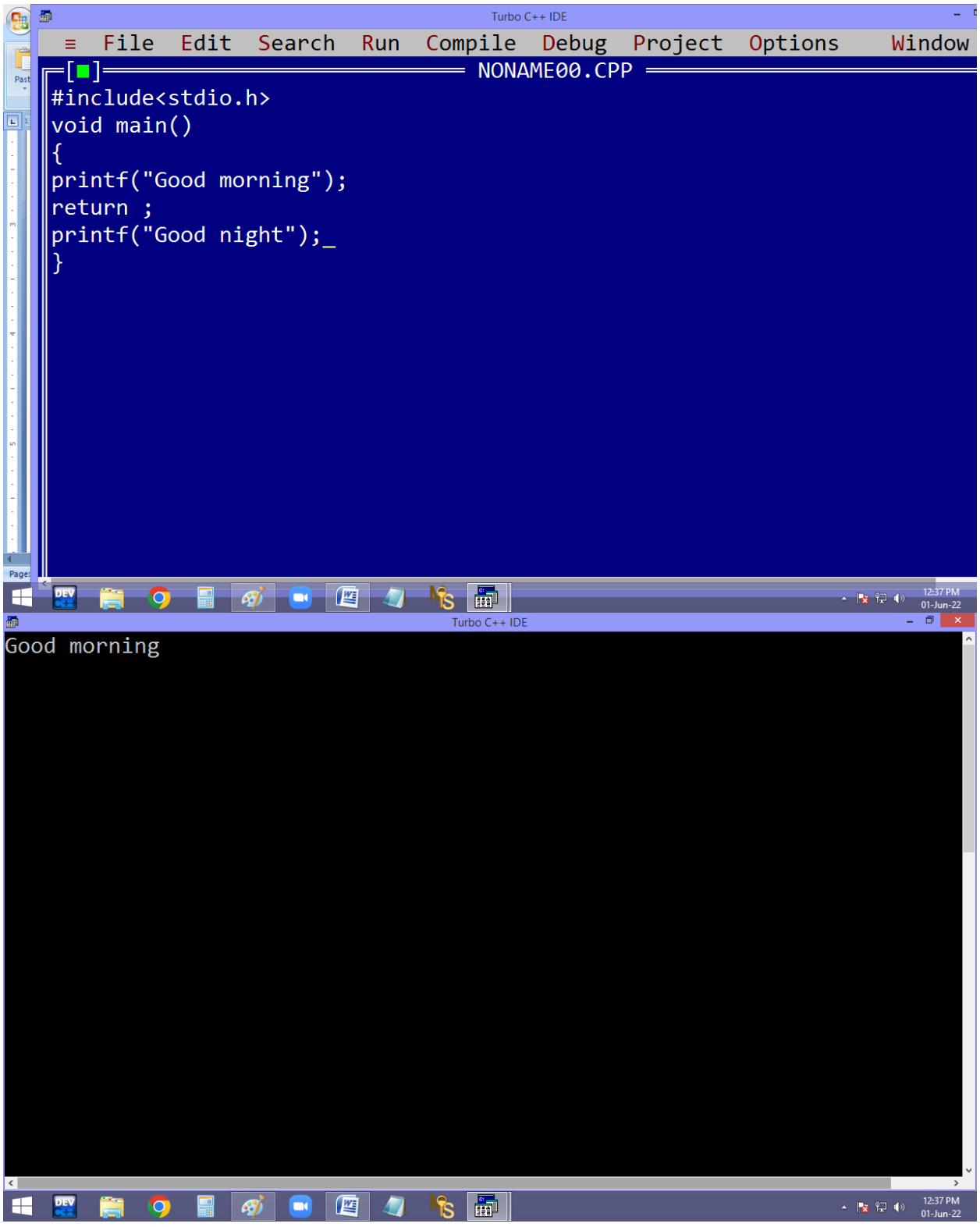
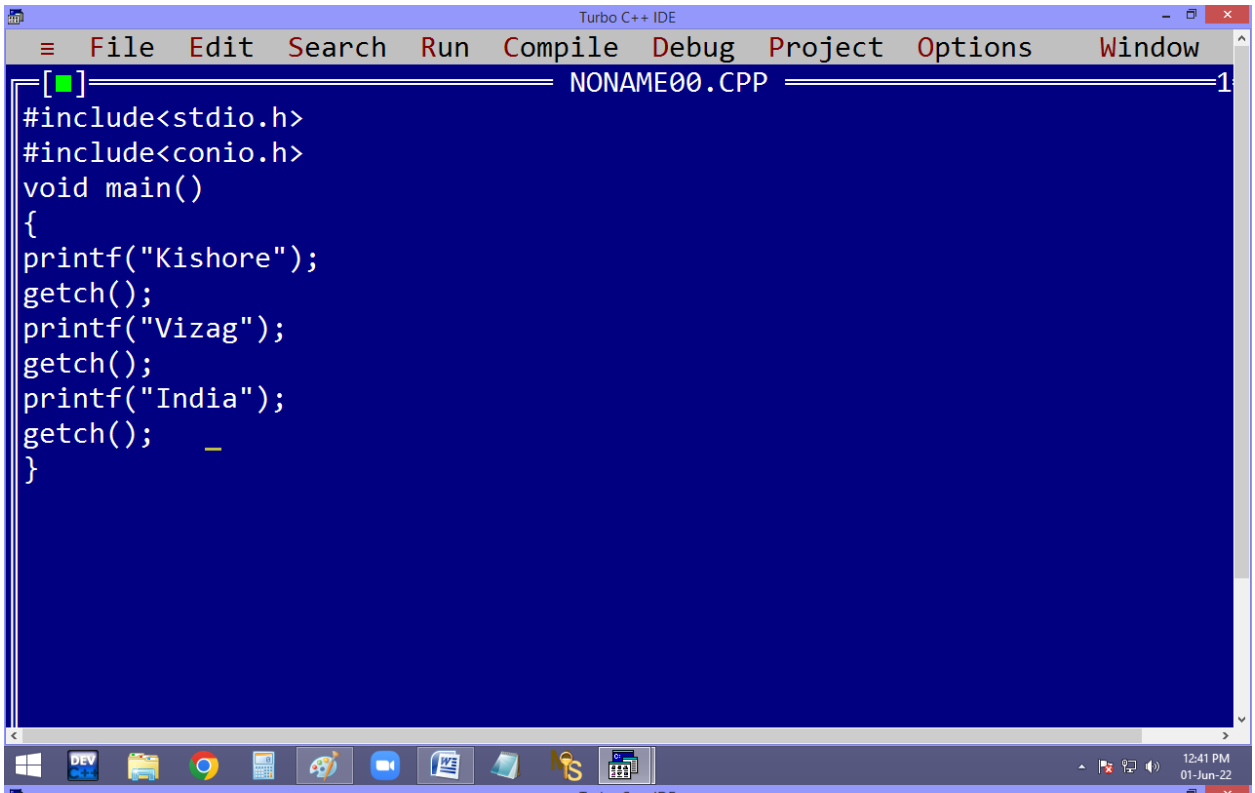
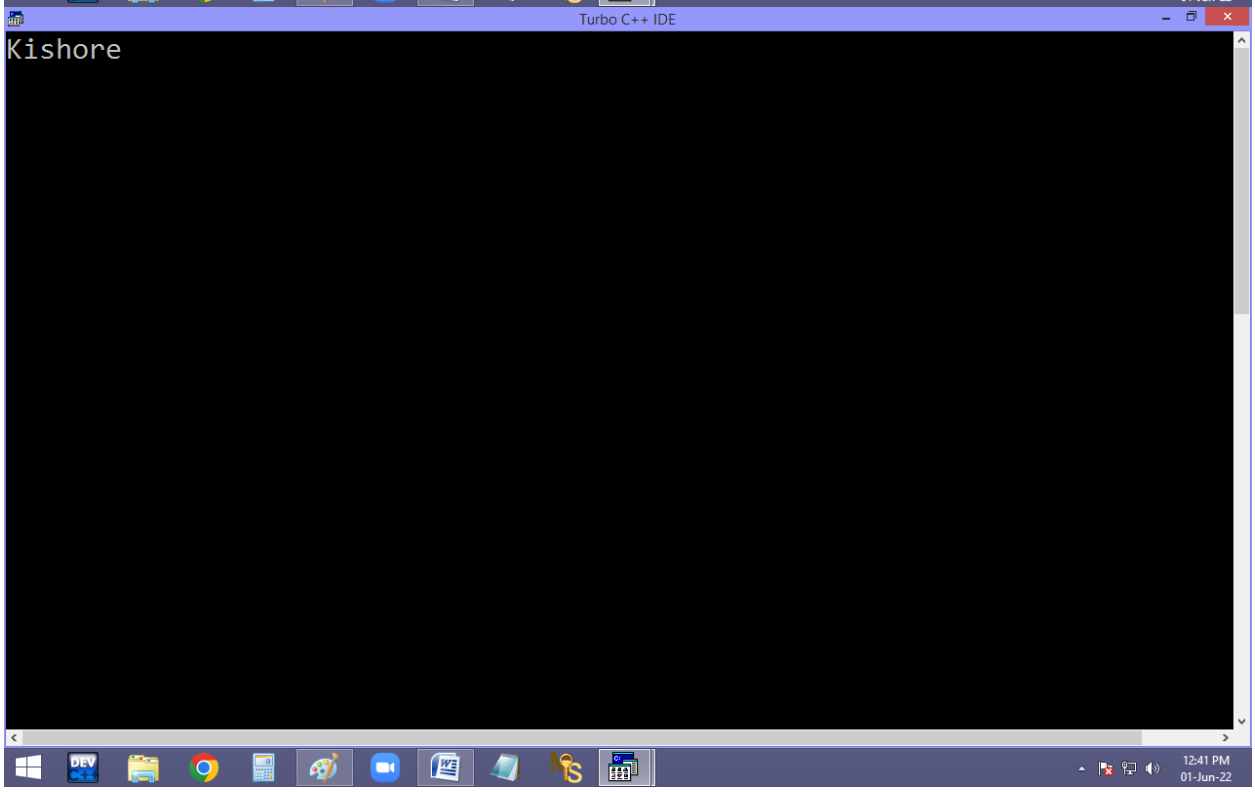
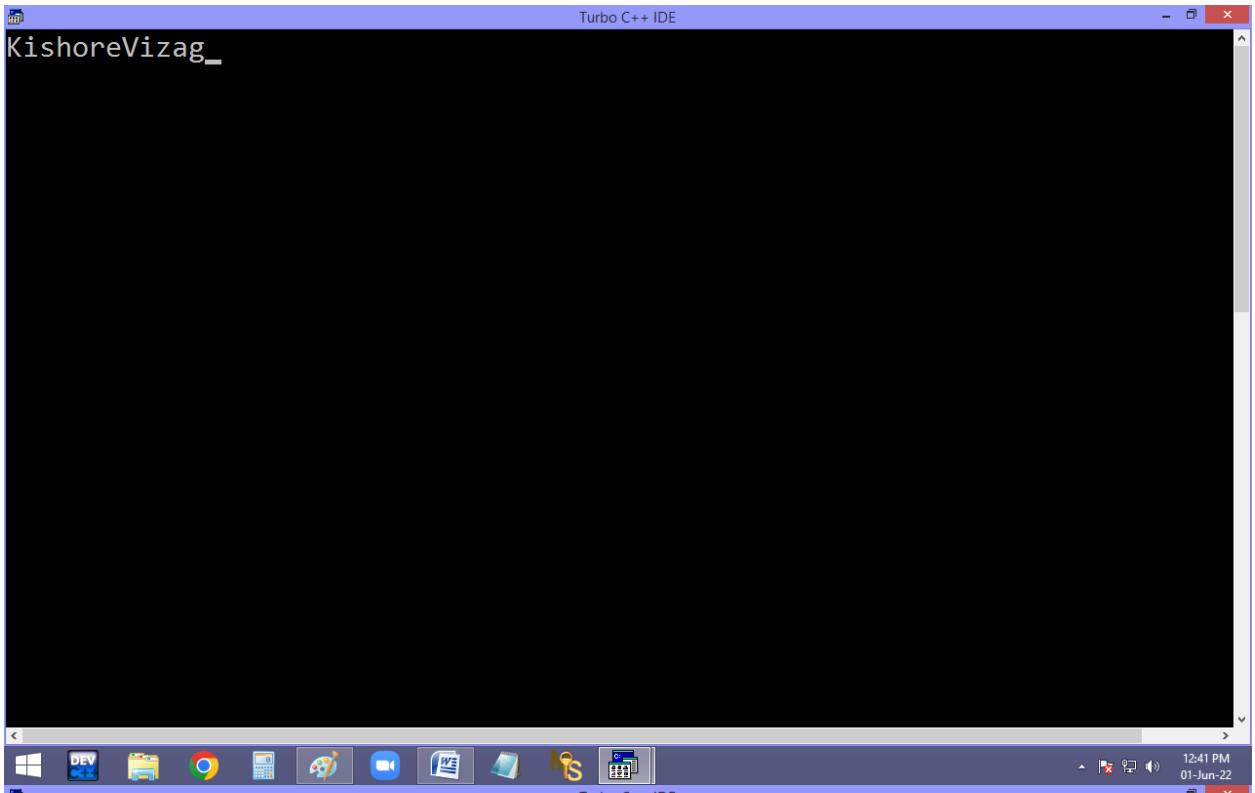

Turbo C++ IDE
File Edit Search Run Compile Debug Project Options Window
NONAME00.CPP
#include<stdio.h>
void main()
{
printf("Good morning");
return ;
printf("Good night");
}
Turbo C++ IDE
Good morning
12:37 PM
01-Jun-22


Turbo C++ IDE
File Edit Search Run Compile Debug Project Options Window
NONAME00.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
printf("Kishore");
getch();
printf("Vizag");
getch();
printf("India");
getch();
}
12:41 PM
01-Jun-22


Turbo C++ IDE
Kishore
12:41 PM
01-Jun-22


Turbo C++ IDE
KishoreVizag_
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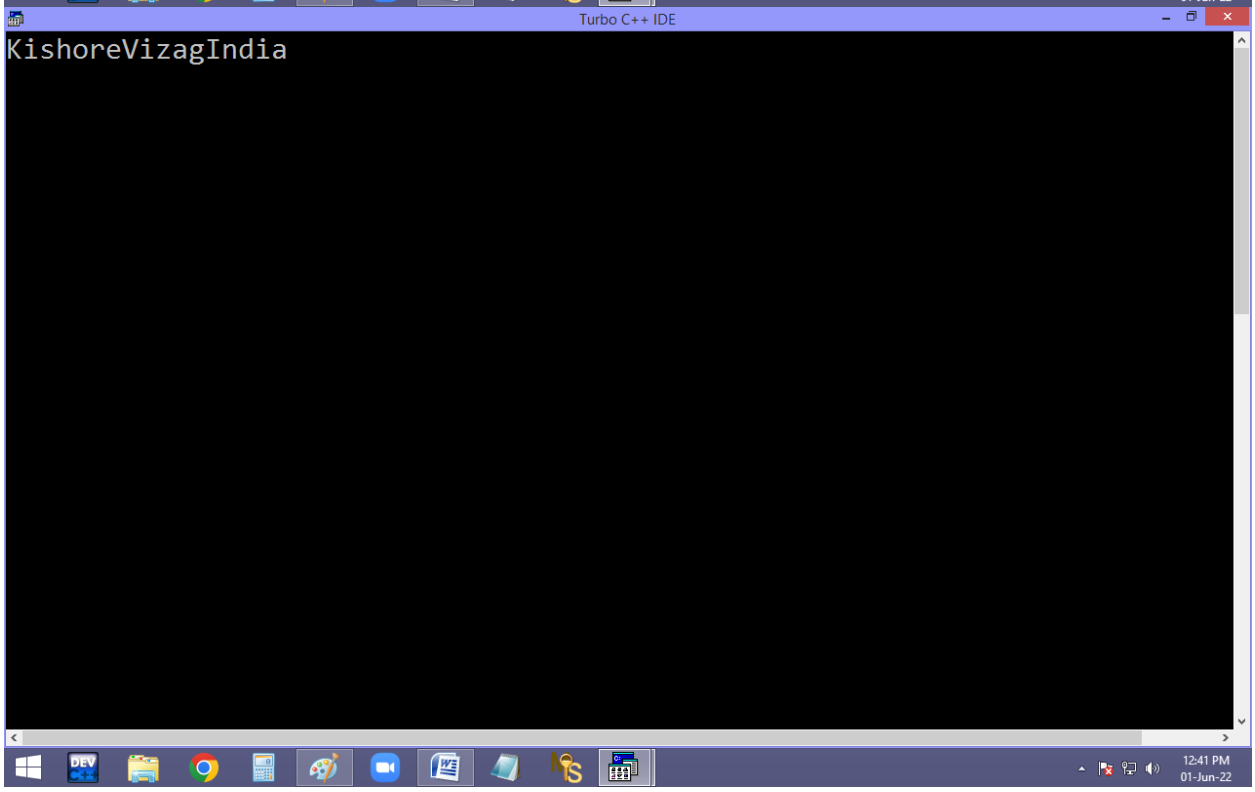
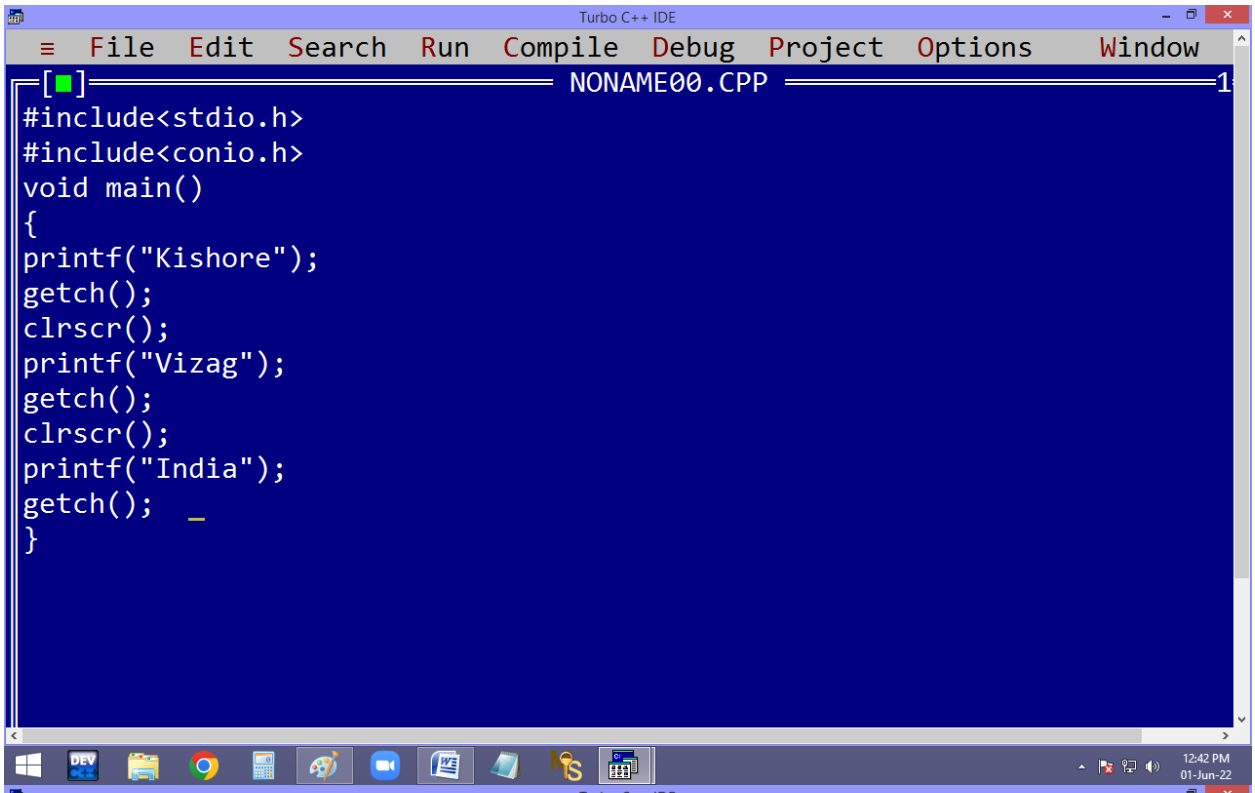
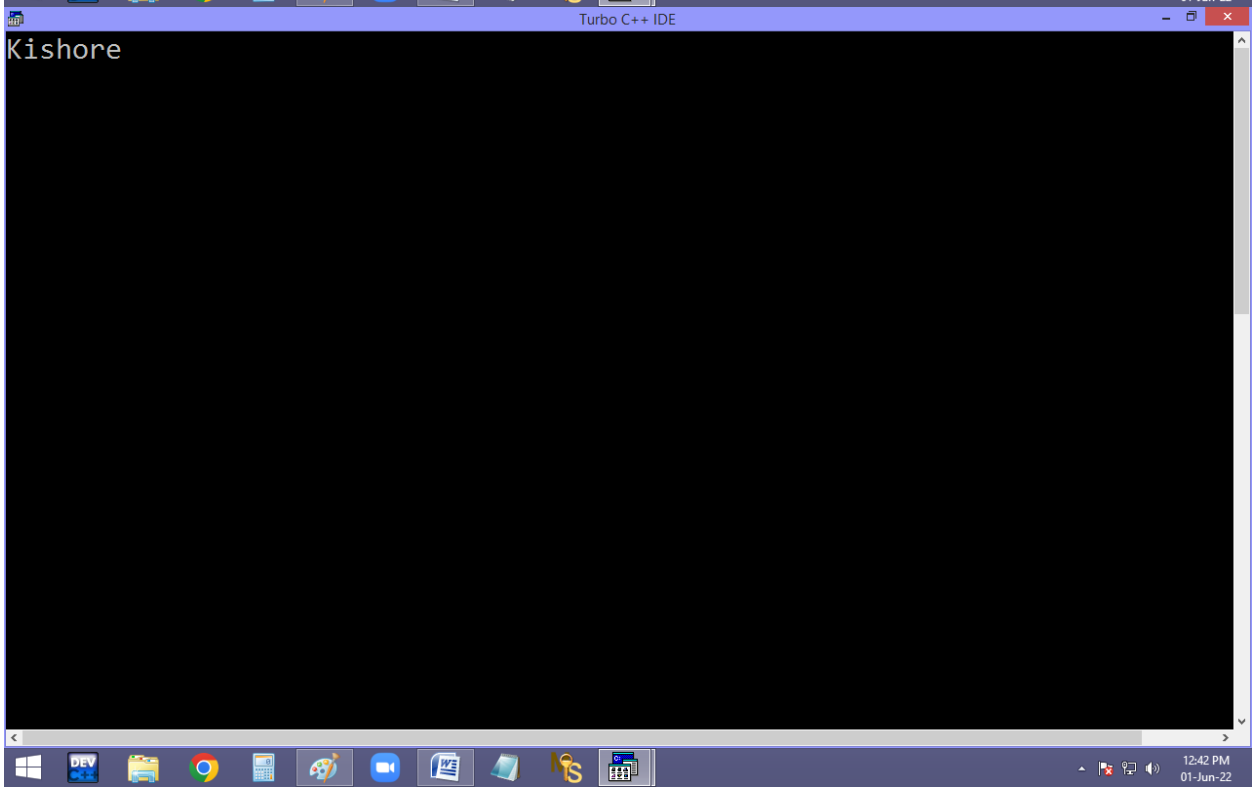
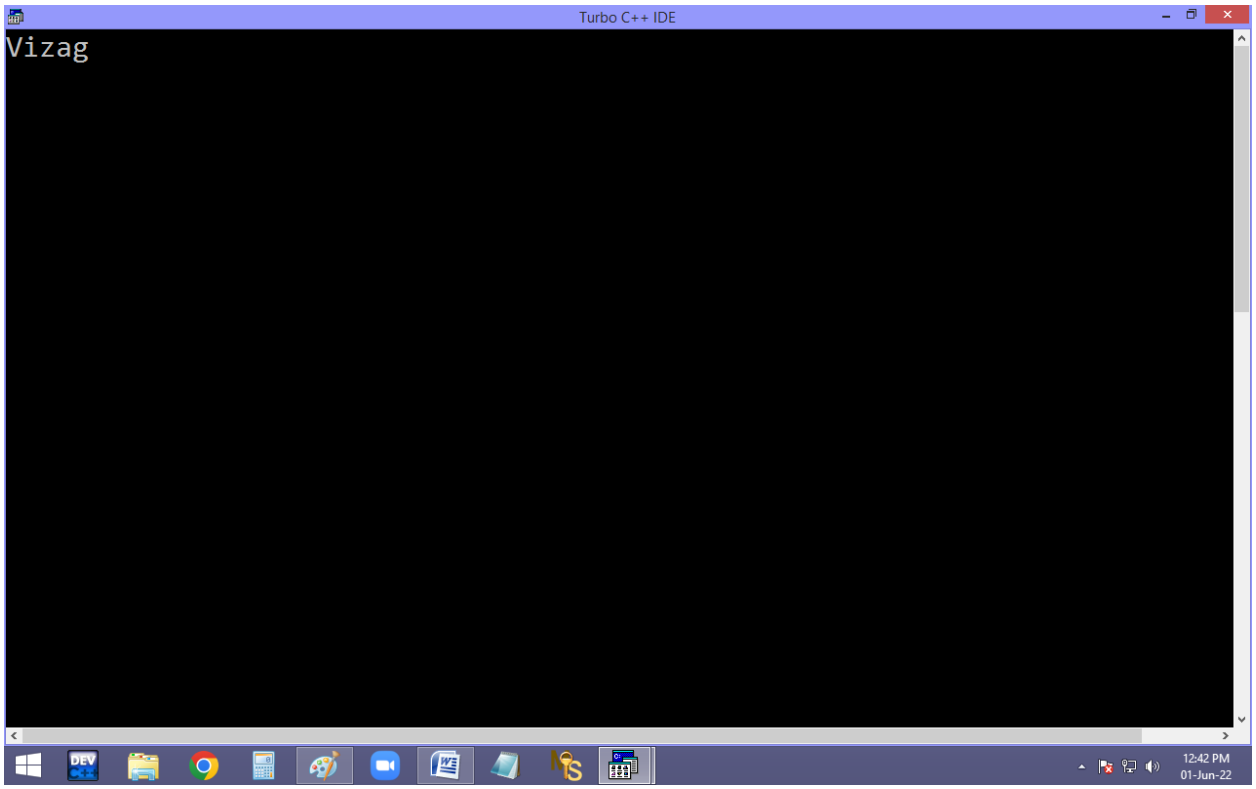
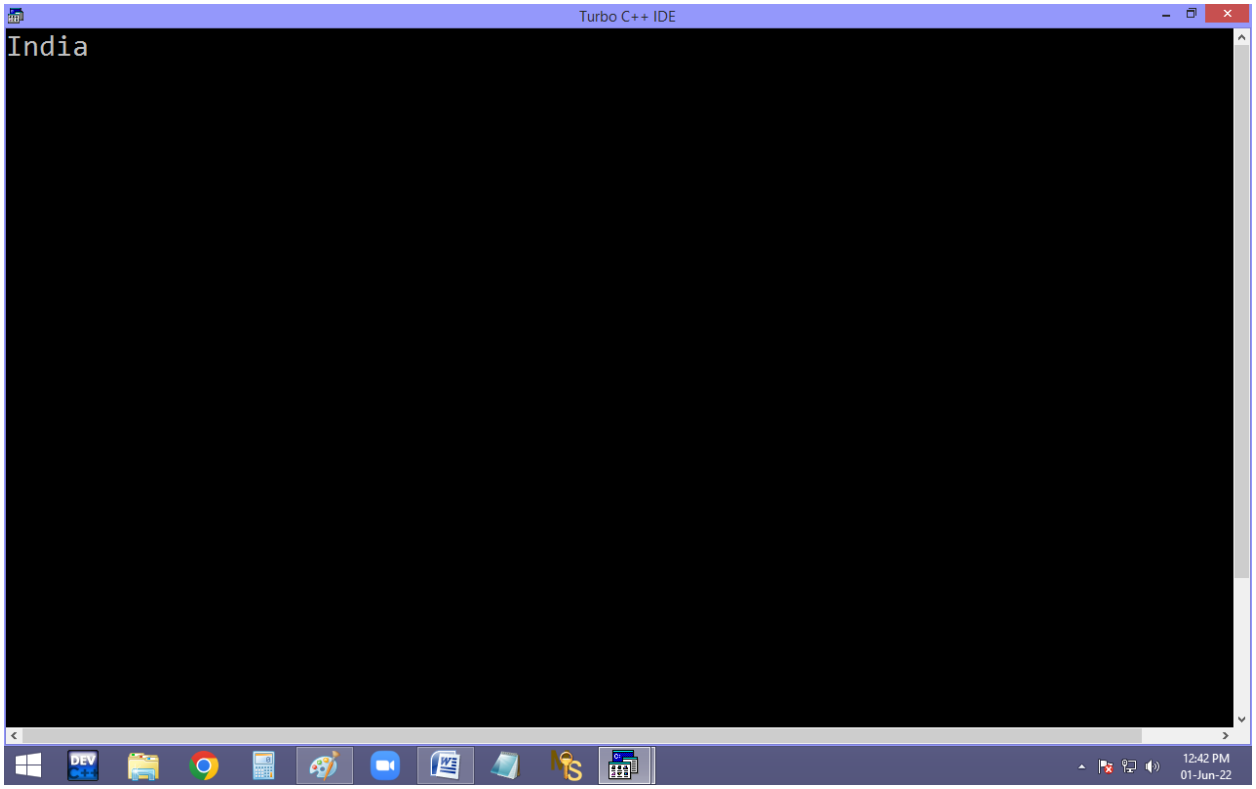
01-Jun-22


Turbo C++ IDE
KishoreVizagIndia
12:41 PM
01-Jun-22

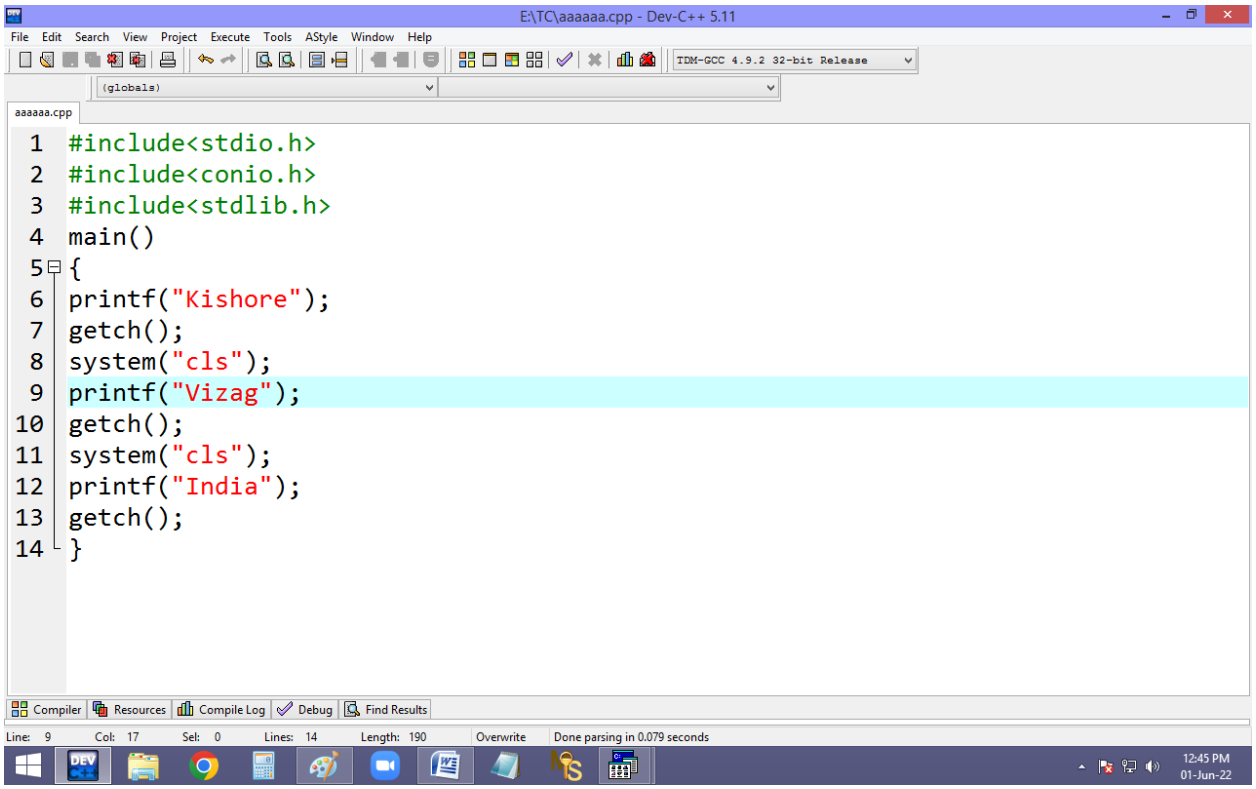

Turbo C++ IDE
File Edit Search Run Compile Debug Project Options Window
NONAME00.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
printf("Kishore");
getch();
clrscr();
printf("Vizag");
getch();
clrscr();
printf("India");
getch();
}
12:42 PM
01-Jun-22


Turbo C++ IDE
Kishore
12:42 PM
01-Jun-22





In Dev C++ and other compilers:


E:\TC\aaaaaa.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 32-bit Release
(globals)
aaaaaa.cpp
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
main()
{
printf("Kishore");
getch();
system("cls");
printf("Vizag");
getch();
system("cls");
printf("India");
getch();
}
Compiler Resources Compile Log Debug Find Results
Line: 9 Col: 17 Sel: 0 Lines: 14 Length: 190 Overwrite Done parsing in 0.079 seconds
12:45 PM
01-Jun-22