

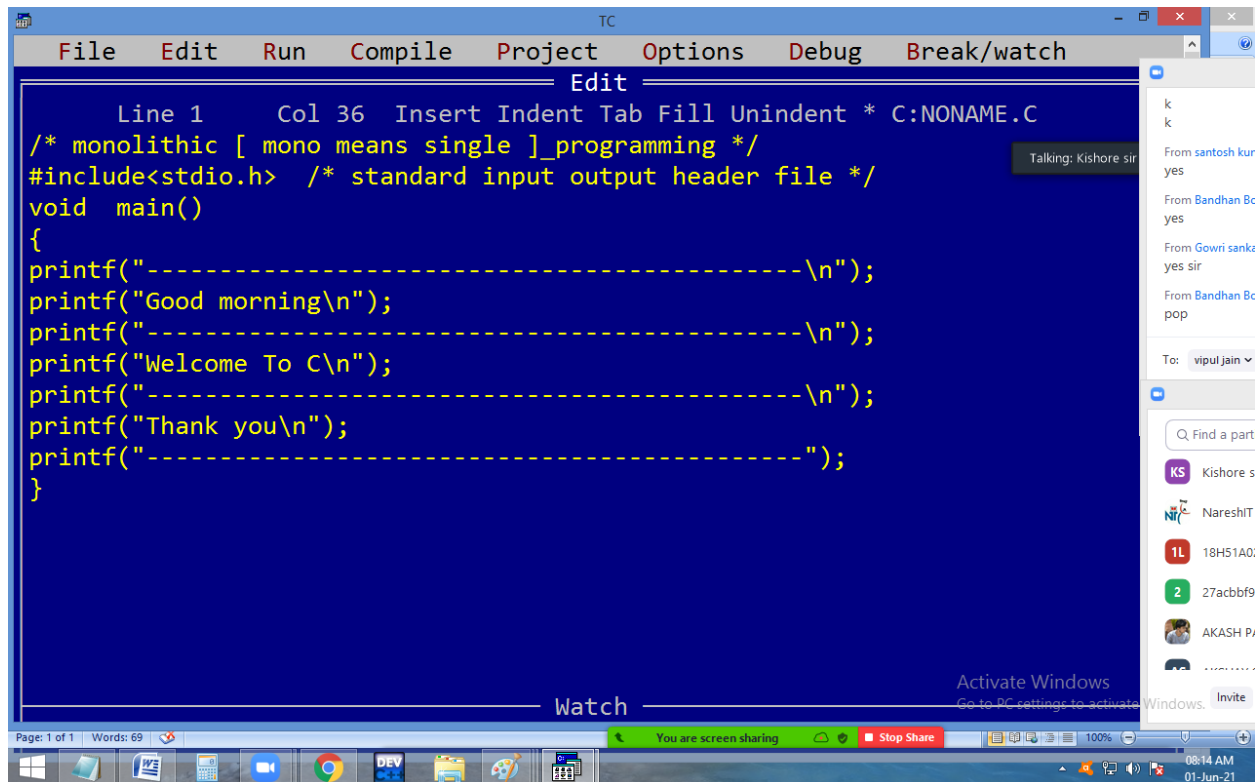
C is a **procedure oriented programming [POP]** language

Every programming language having a particular **structure**, which is called **programming paradigm**.

What is called **monolithic** programming ?

Once upon a time all the programming languages creating the programs using single program, which is called monolithic programming. In this we can't reuse the program again and again. Due to this program size increased and giving more complexity.

Example:



The screenshot shows the Turbo C++ IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Page: 1 of 1, Words: 69). The main window displays a C program in a monolithic style, where all code is contained within a single main function. The code is as follows:

```
Line 1      Col 36  Insert Indent Tab Fill Unindent * C:NONAME.C
/* monolithic [ mono means single ]_programming */
#include<stdio.h> /* standard input output header file */
void main()
{
printf("-----\n");
printf("Good morning\n");
printf("-----\n");
printf("Welcome To C\n");
printf("-----\n");
printf("Thank you\n");
printf("-----");
}
```

The right sidebar shows a chat window with messages from various users, including Kishore sir, santosh kun, Bandhan Bo, Gowri sank, and Bandhan Bo. The bottom status bar indicates "You are screen sharing" and "Stop Share".

To avoid this problem they have introduced procedure oriented approach. In this a single program is divided into several small sub programs or sub routines or procedures or functions. It provides the advantages like

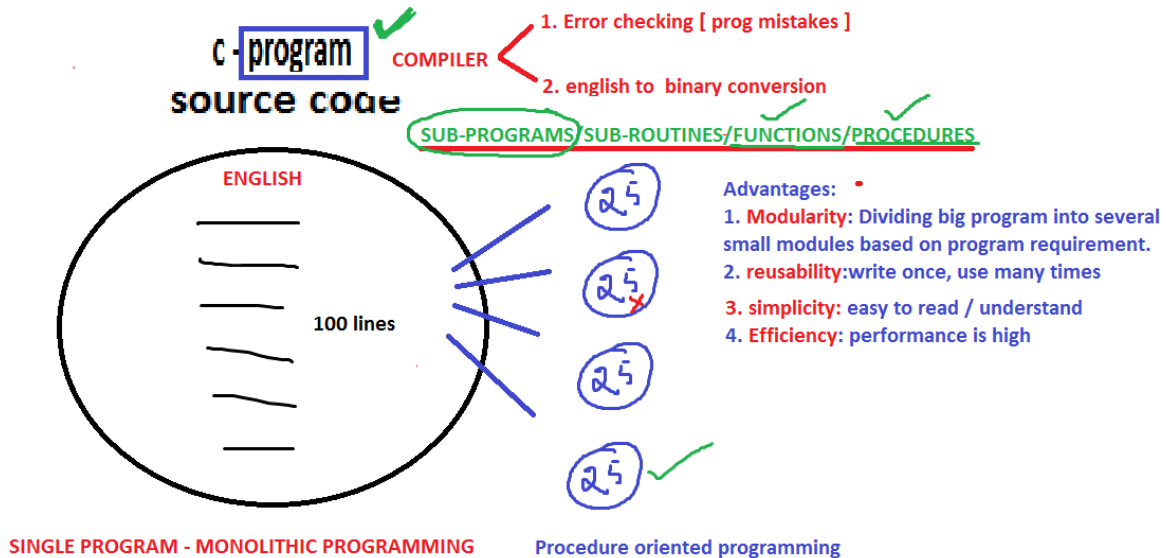
1. **Modularity**: Dividing big program into several small modules based on project requirement.
2. **Reusability**: write once, use many times.
3. **Simplicity**: Easy to read and understand the instructions.

4. **Efficiency**: performance of program improved.

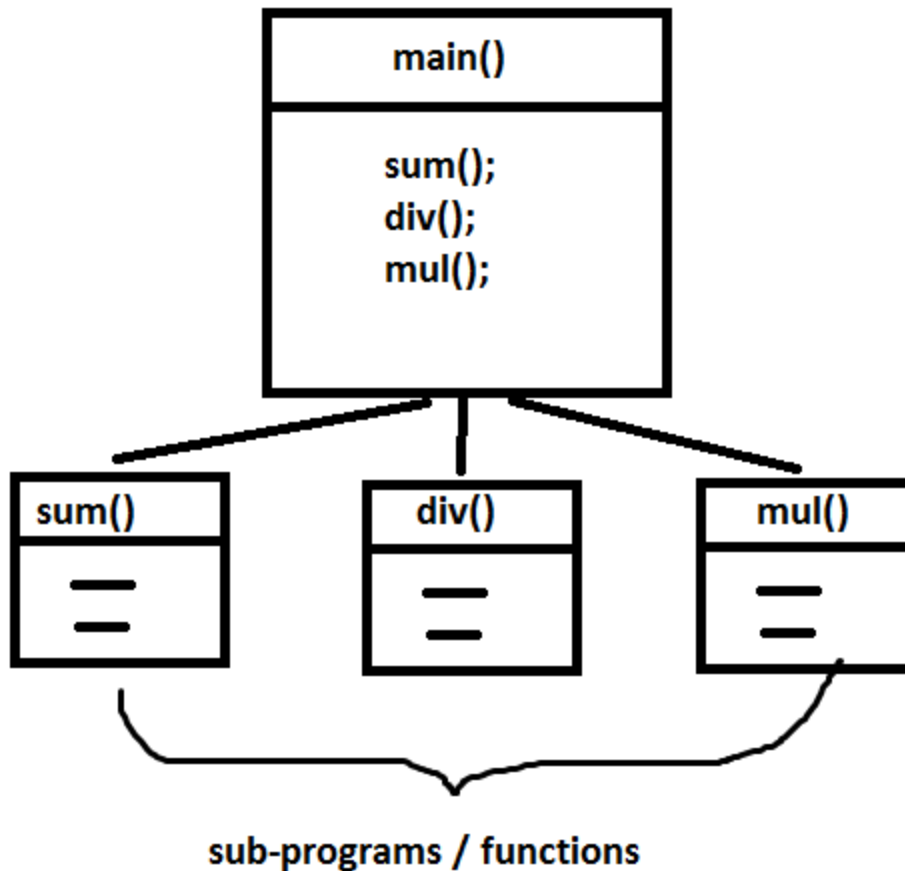
```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 1 Col 45 Insert Indent Tab Fill Unindent * C:NONAME.C
/* procedure oriented programming [ POP ] */_
#include<stdio.h>
void line()
{
printf("-----\n");
}

void main()
{
line();
printf("Good morning\n");
line();
printf("Welcome To C\n");
line();
printf("Thank you\n");
line();
}
```

Windows taskbar shows: You are screen sharing, Stop Share, 08:19 AM, 01-Jun-21.



function oriented programming structure



Note:

C follows POP

C++ and Python follows POP & OOP. Hence they are called **multi-paradigm programming languages**.

.Net, Java follows OOPs