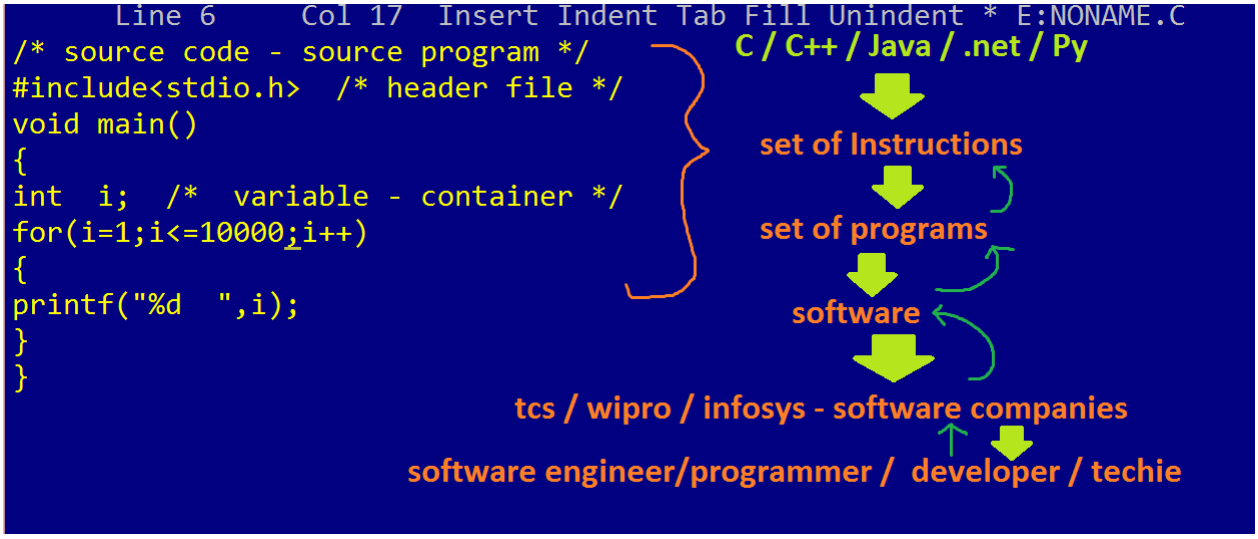
INTRODUCTION TO C

C is a

1. It is a high level / middle level programming language.

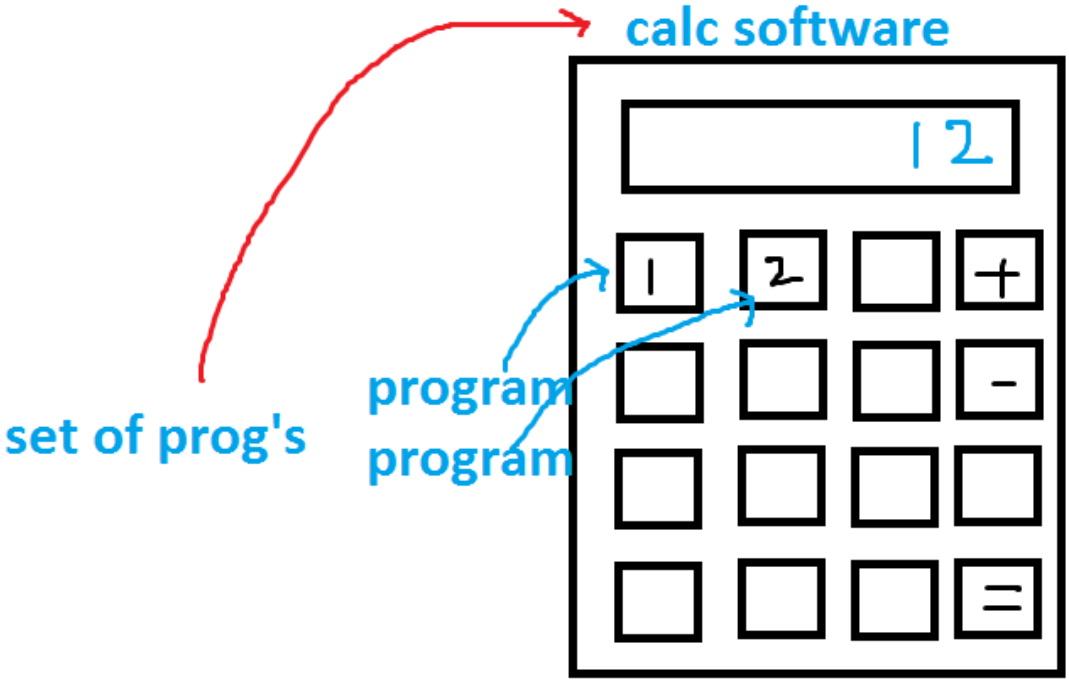


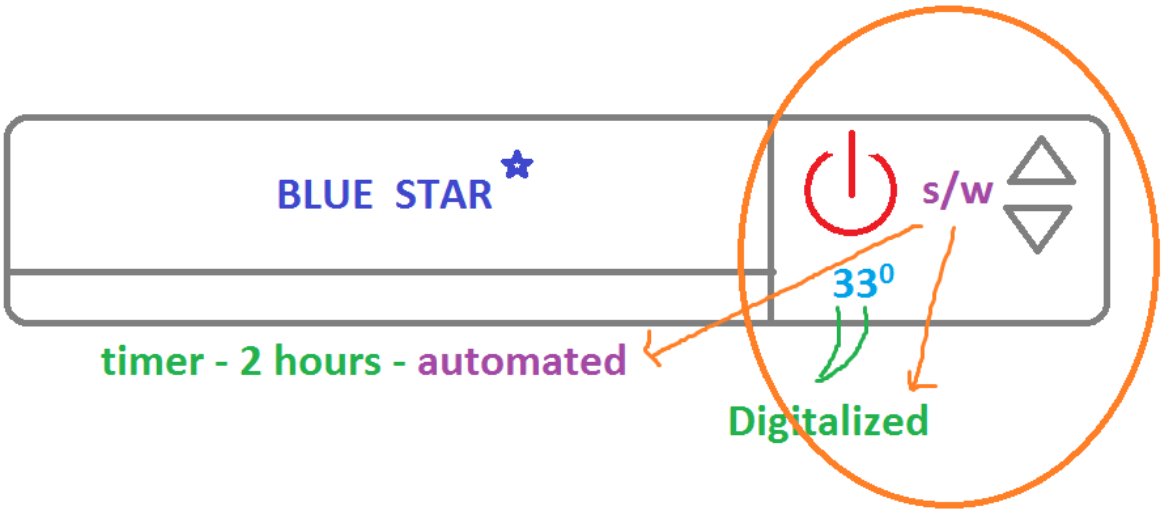
What is a program?

Set of instructions are called program

What is a software?

Set of programs is called software. As per IT Industry software is a digitalized and automated process.





We are having basically 2 type of software.

1. **System software:**

   Eg: os, device drivers, translators

2. **Application software**

   Eg: whatsapp, fb, insta,…

What is a language?

Generally the languages are used to communicate with others. For example the languages like telugu, English, hindi, Marathi etc are called human languages, which are used to communicate only with humans. But by using these languages we can't communicate with the machines. For that we are using the computer programming languages like C / C++ / java / Python / .net / Go / R language etc to create the programs [software]. These software making our work easy, faster and accurate.

Basically these languages are divided into 3 types.

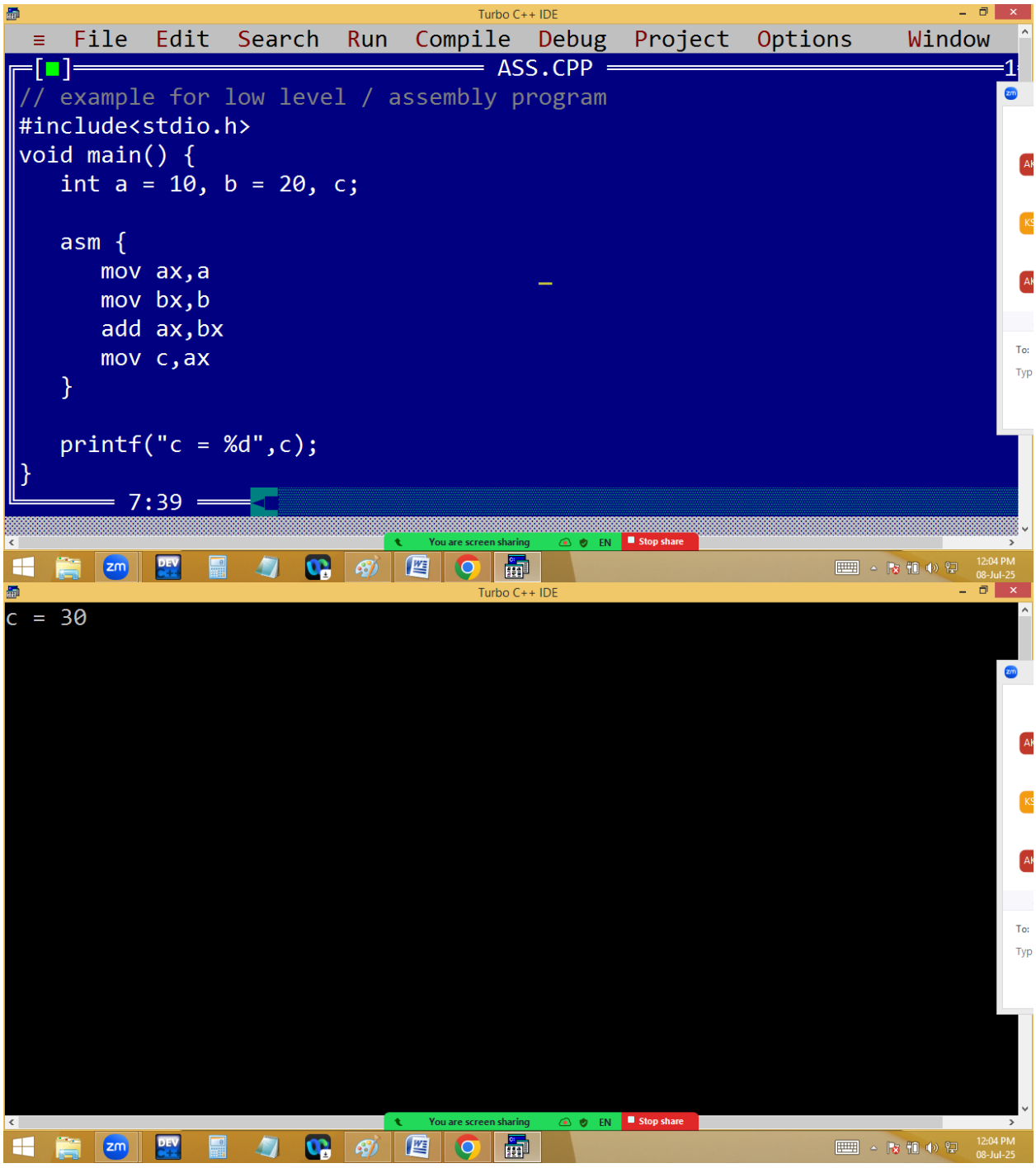
1. **Machine language: Created with binary code and very difficult to read by the user.**

   Eg: 10001111

2. **Low level / assembly language: Created with English like shortcuts called MNEMONICS.**

   Eg: add, sub,…

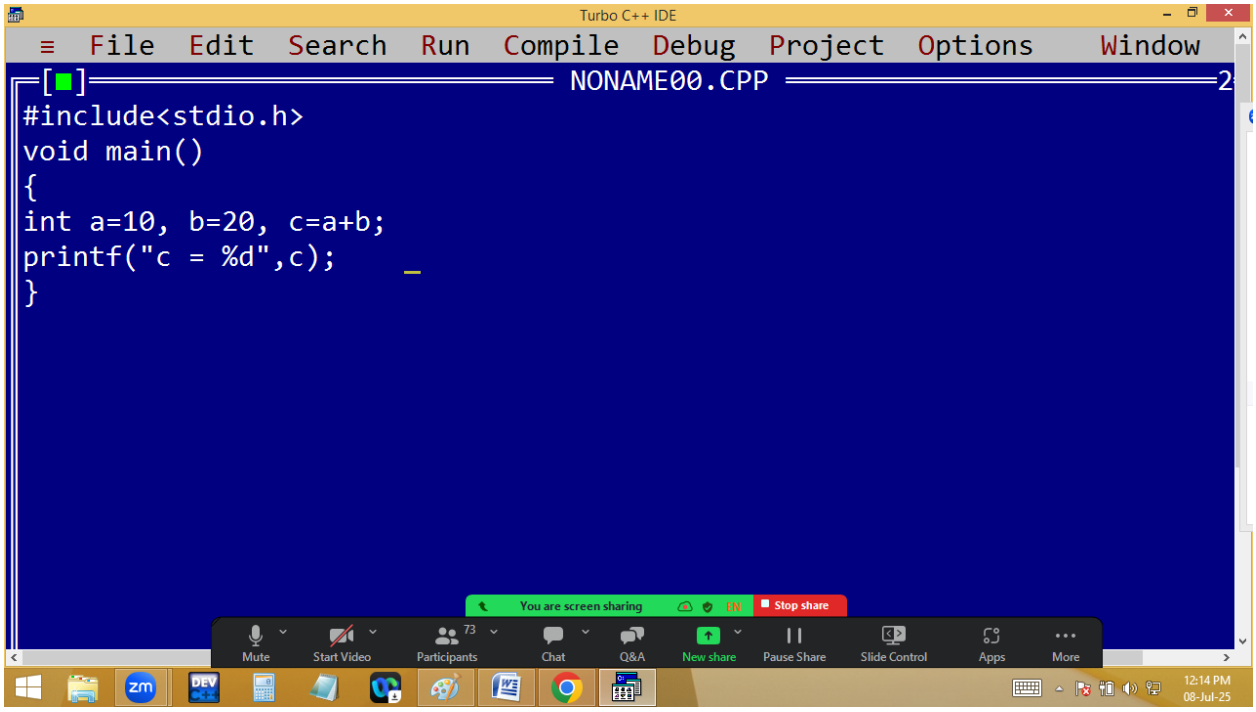
Example for assembly programming:



3.High level language: Created with simple English and easy to understand.

Eg: addition, subtraction,…

Example for high level program:



C is a high level language with low level features.

Hence it is a middle level language.

C low level features are used to design system software.

C high level features used to design application software.

Hence C is a Multi-Purpose programming language.

2. C is a compiler based programming language.

What is a translator?