

INTRODUCTION TO PROGRAMMING

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23:34

A computer does only a binary number understand.

01 → Binary number

But why computer does only binary number understand?

→ Because computer are made up of RAM, ROM, PROCESSOR, HARD DISK etc and these all are hardware and also these hardware are made up of capacitors and also it's easy to represent in 2 states (0 & 1) that's why computer does only 0 and 1 understand.

1 → on (capacitor on)

0 → off (capacitor off)

DDDD → capacitor

Software → Executable File

audio → .MP3

Image → .Jpg

Text → .txt

→ Computer does understand only 0, 1 then why we write code in C, Python etc.
Ans:- It's tough to write computer language 0, 1, 0 so we have made a simple language and we write in that language and it's called source file and after we handover that source file to a software which convert that source file into computer language (0, 1)

```
.c
main()
{
    printf("...");
    return 0;
}
```

Source File



Build
preprocessor
Compiler
Linker



.exe

010101

This is what computer read & understand.

To write our .c file we need an IDE (VS code) and to convert our code into machine language we need compiler