

# CS & IT ENGINEERING

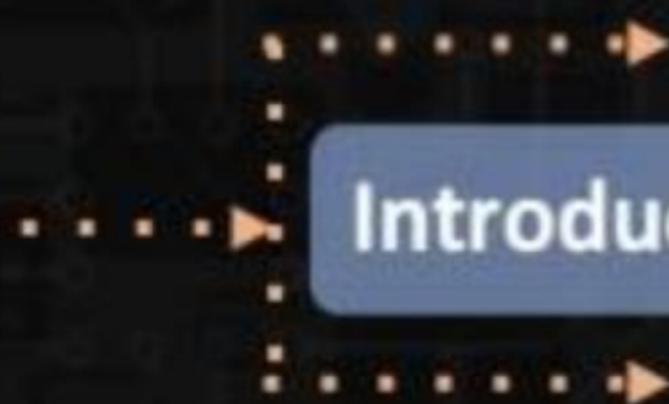


C Programming  
Data Types and Operators  
Lec- 01



By- Pankaj Sharma sir

## TOPICS TO BE COVERED



$$10 \times 10 = 100$$

Easy ✓

$$173219 \times 17381926 = \checkmark$$

$$8932195342961327 \times$$

*Complex Problem*

$$1732961534278613$$

why PL

Language



Computer



✗ Powerful

✓ Dumb

A hand-drawn wavy bracket is positioned under the word "Dumb".

follow instruction

Program

Google maps source

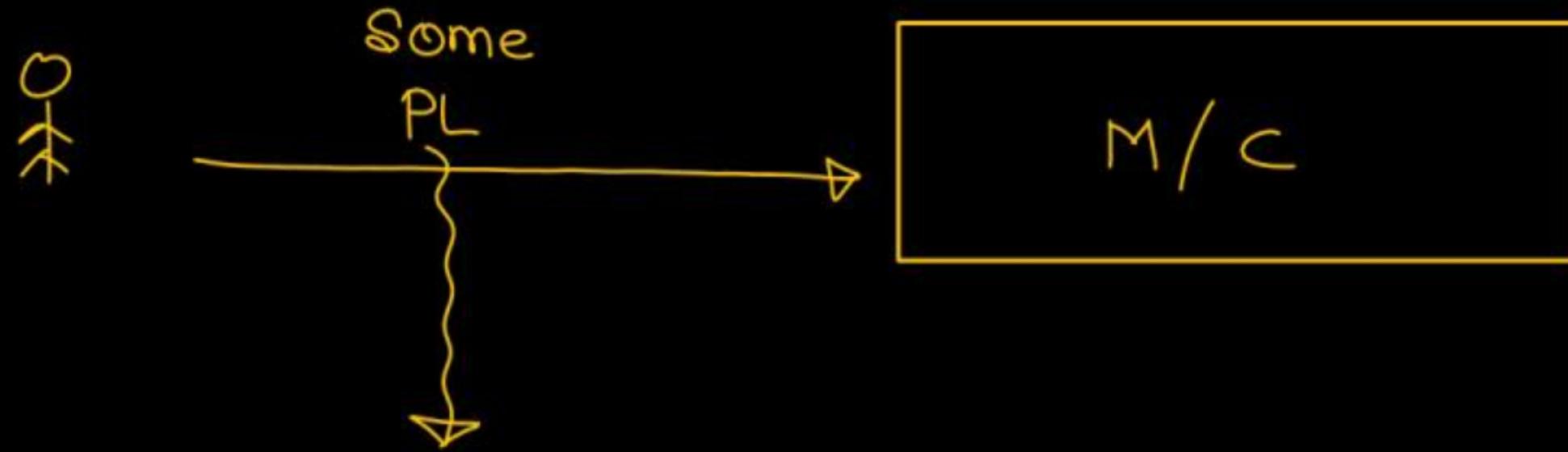
dest

{ route

ATM M/C

Pin  xxxx

→ Cash



Follow instruction/command

O  
P

Seq. of instructions /  
Seq. of commands  
written in some PL

↓  
Program

M / C

Program

```
#include<stdio.h>
void main(){
    ...
}
```

Translator

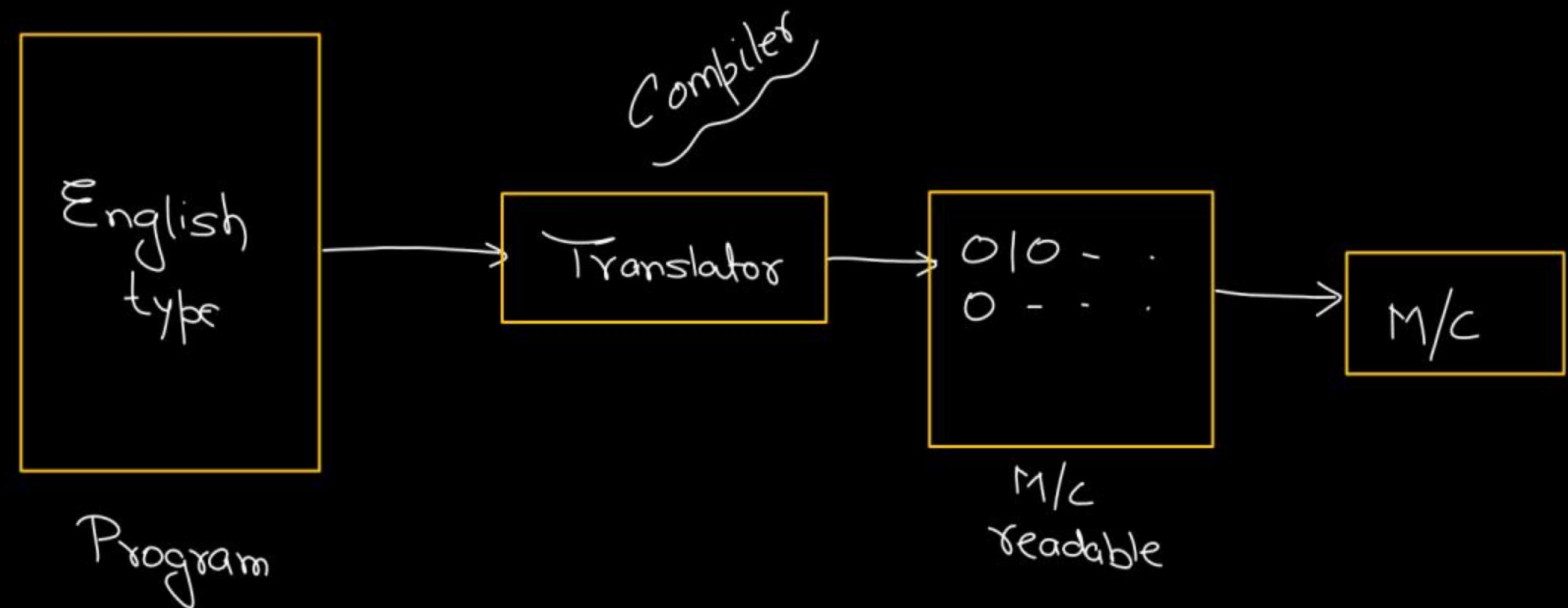


ON OFF

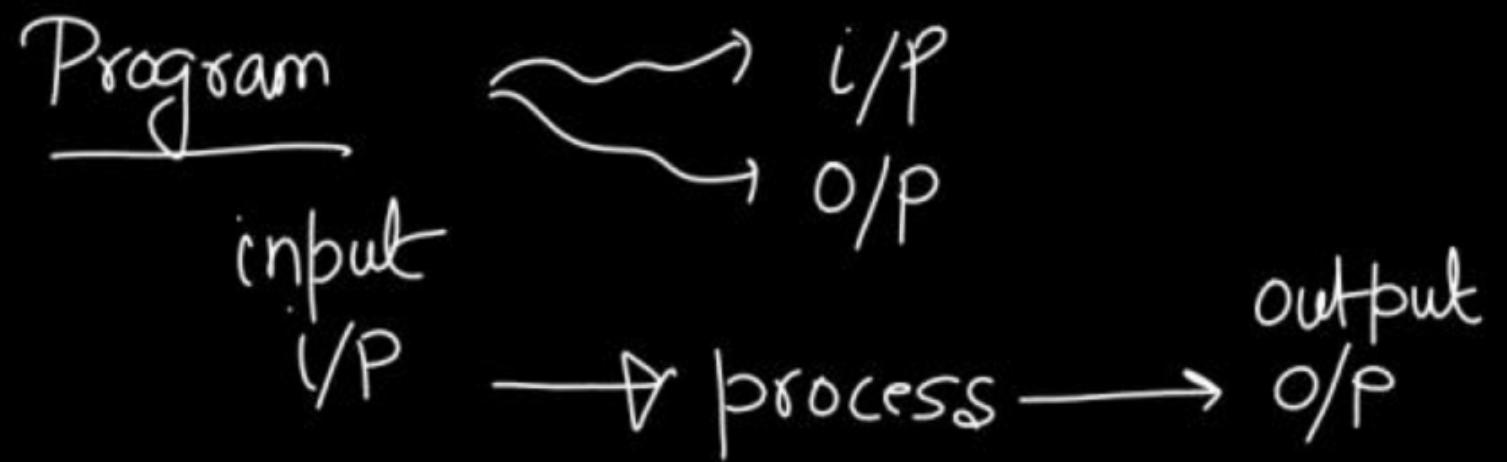
M/C

Human-readable  
(English-type)

O<sub>1</sub>  
(M/C lang)



Google map



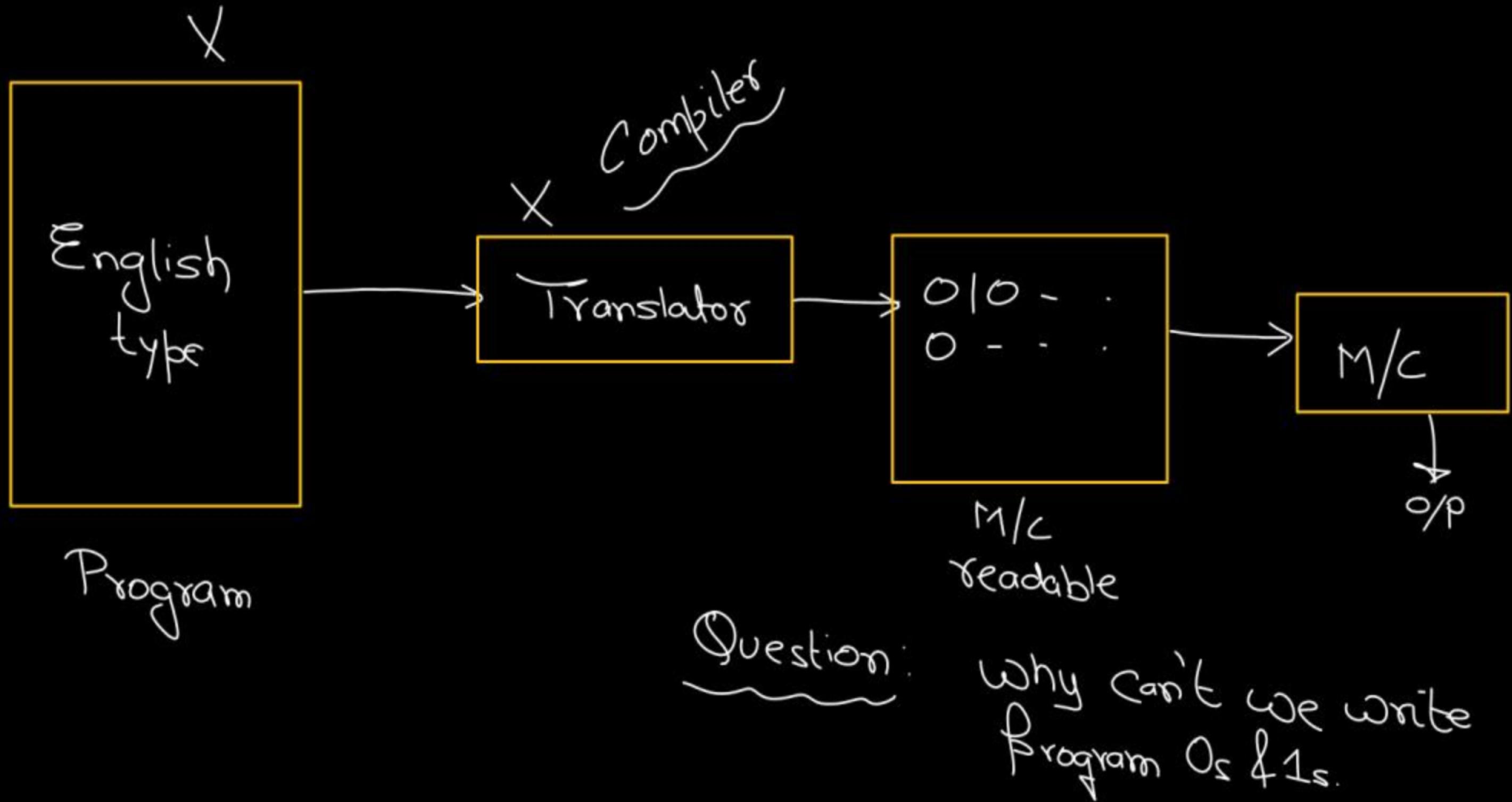
Source

Delhi

dest.

Goa

Route



- ① we need to learn Some PL
- ② write program.

Language

English ✓

Hindi ✓

Kannadq

Marathi

;

;

;

PL+

Addition

M/C  $\Rightarrow$  0,1

3,9  $\Rightarrow$  ADD

0/1  $\Rightarrow$

M/C lang

ADD

MUL

000000011 000001001 010.010

Easy

Assembly lang.  
ADD 9, 3

ADD 9 , 3

Assembly  
language

Assembled

001 - -

- - -

M/C



① we need to learn Some PL

② write program.

Rules ✓

{ Noun + <is/are /am> + V<sup>I</sup> + ing  
+ - -

English  
↓  
Proff.

Grammar

PL  
↓  
Statement

Tense  
Present  
Past  
Future

Ram to Agra is going.



2)

To,	-
The —	
Subject :	—
	—
	—

Post-office  
Telegram

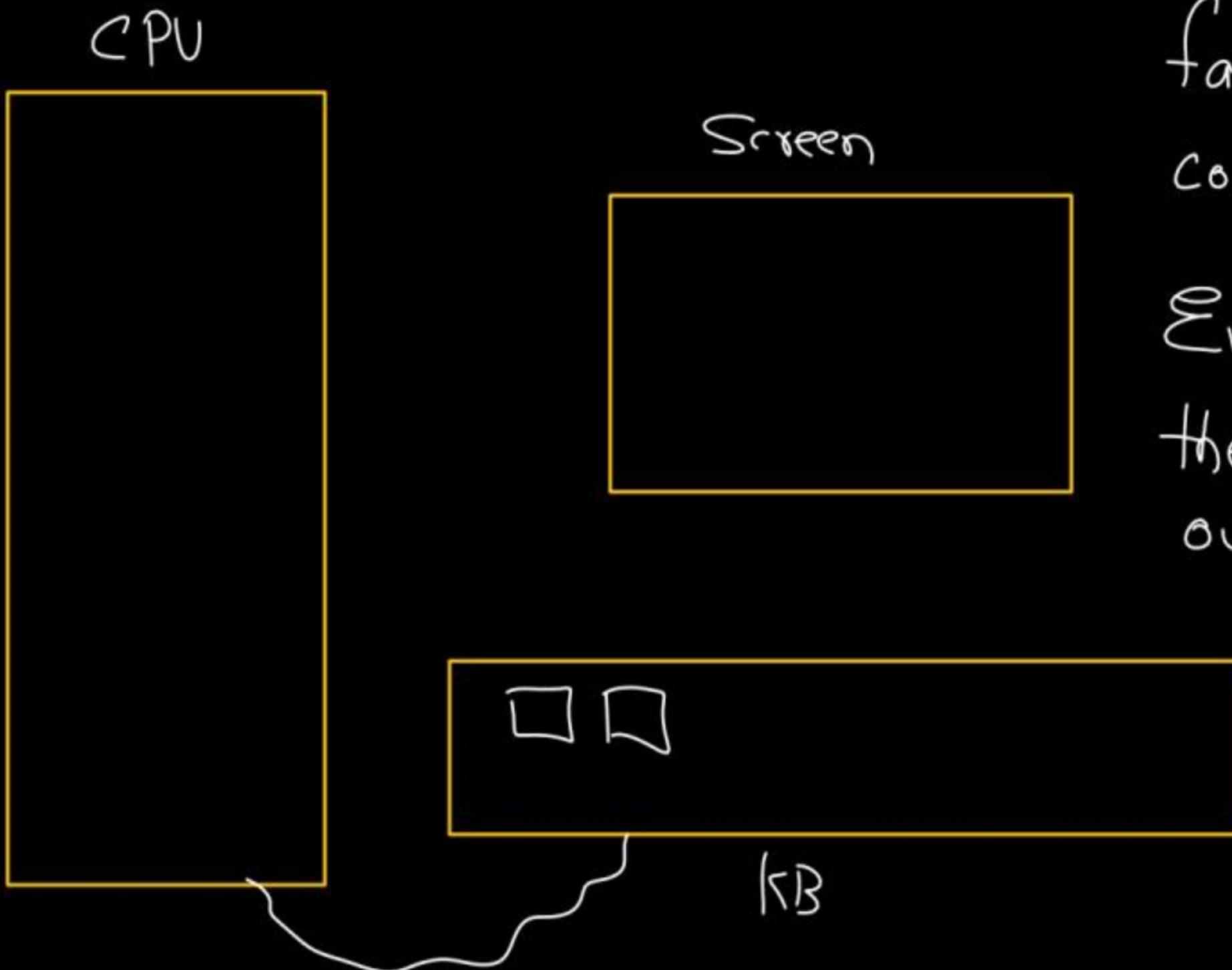
COME URGENTLY

void main() {

}

I/P      O/P

2.

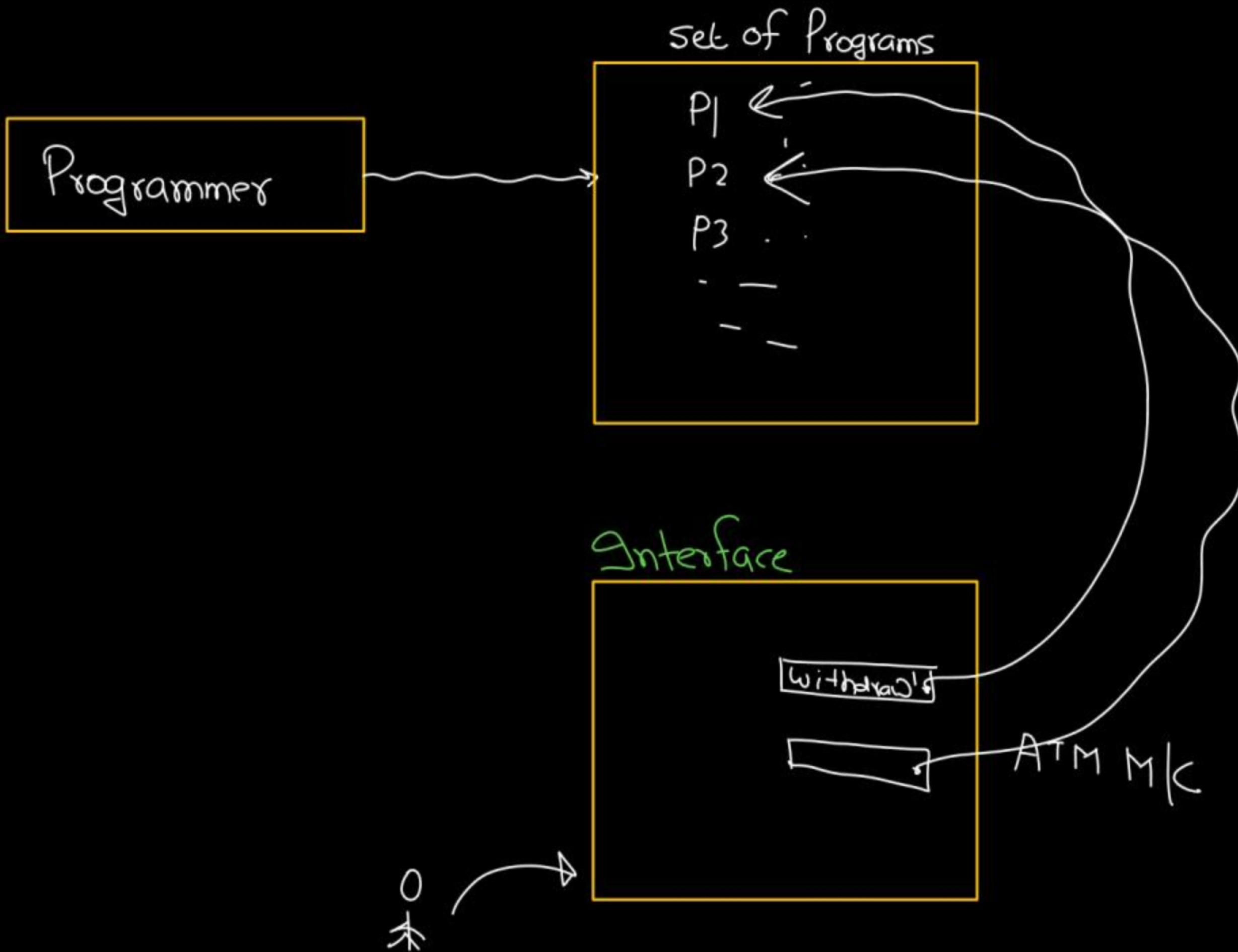


Every PL must have the facility to read input coming from kB.

Every PL must have the facility to display output onto the screen.

Is it necessary to learn PL  
to interact with M/C





## Abstractions

① ATM M/C →

② TV

