

Python interpreter

→ Print('Hello') → Translation  
→ Print('good morning') → Execution

C, C++, Java

Compiler

- ① Compilation
- ② Execution

myprogram.c

```
1 void main()  
2 {  
3     printf("Hello");  
4     printf("good morning");  
5 }
```

① Syntax checking

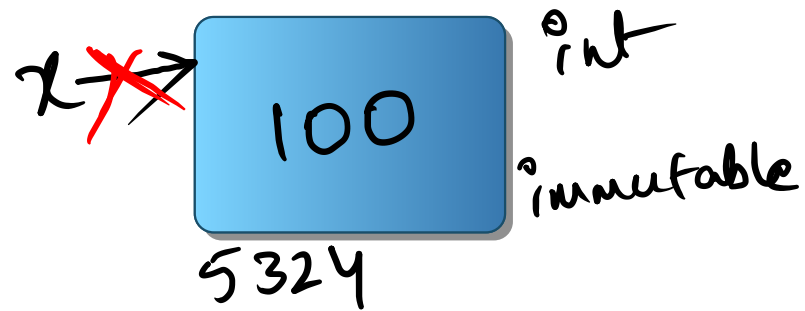
② Translation  $\frac{\text{High}}{\text{Low}}$  ↓

③ Save to file

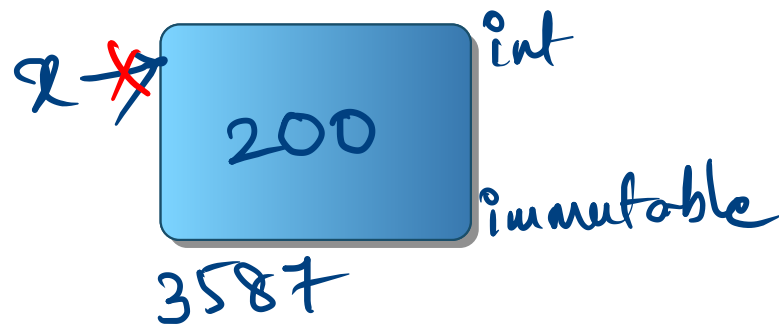
myprogram.exe

## Variable definition

$x = 100$   
② ①



$x = 200$



$x = \text{'venkat'}$



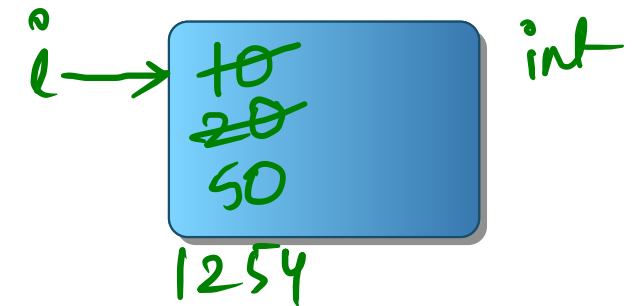
① definition

② data can't be modified

③ memory name can be modified

## Variable declaration

$\text{int } i;$



$i = 10;$

$i = 20;$

$i = 50;$

$i = \text{'venkat'};$

① declaration

② data can be modified

③ memory name can't be modified