

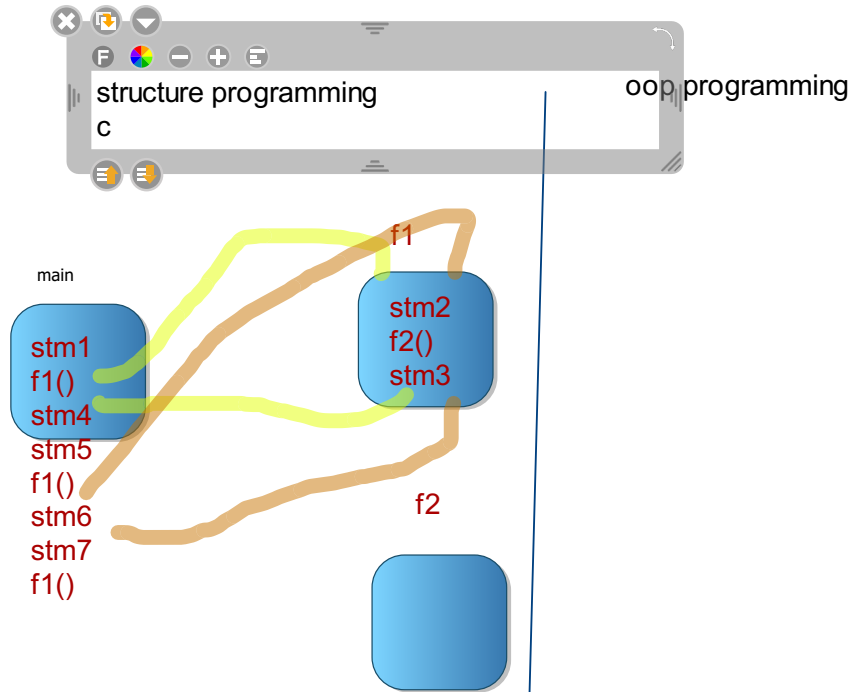
## C Programming Language

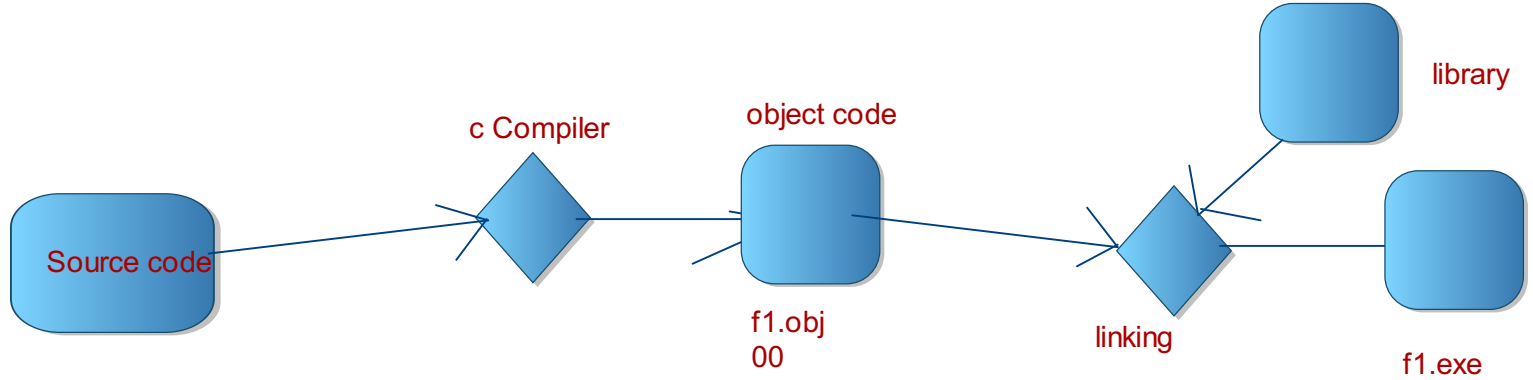
program  
steps + data  
0, 1 ( binary system )  
00,01,10,11->  
000,001,...,111  
byte (8 bit) (0->  $2^8 - 1$ ) 0-> 255  
1byte : 8 bit : 0-: $2^7 - 1$   
                    -1 : - $2^7$   
2byte: - $2^{15}$  :  $2^{15} - 1$   
4byte : 32 bit -> bit sign 31 - $2^{31}$  :  $2^{31} - 1$   
  
floating data:24.3656 =>  $m \cdot 10^n$   
  
a:000011 (97)  
b  
A  
string "ajfjh"  
acii code  
  
0,1,2...9 ( decimal system ) 0->( $10^n - 1$ )  
10,11,...19...98,99  
0-> 999  
0->9999  
4 digt 0-> 9999  
-  
mc  
00001010101100

mc  
00000000001111  
----  
assembly language  
move m1,r1  
move m2,r2  
add r1,r2,  
add r1,r2,  
=> assembler=>0000011111  
  
-----  
 $x = y * r + 3 * 5 / 2$   
high level language ( c# , java , c++ , c)

linear programming

stm1  
stm2  
stm3  
stm4  
stm5  
stm2  
stm3  
stm6  
stm7  
stm2  
stm3





f1.c

IDE  
GCC  
CODEBLOCK 16  
1972  
1989 : ANSI C  
C99  
C11  
C17

