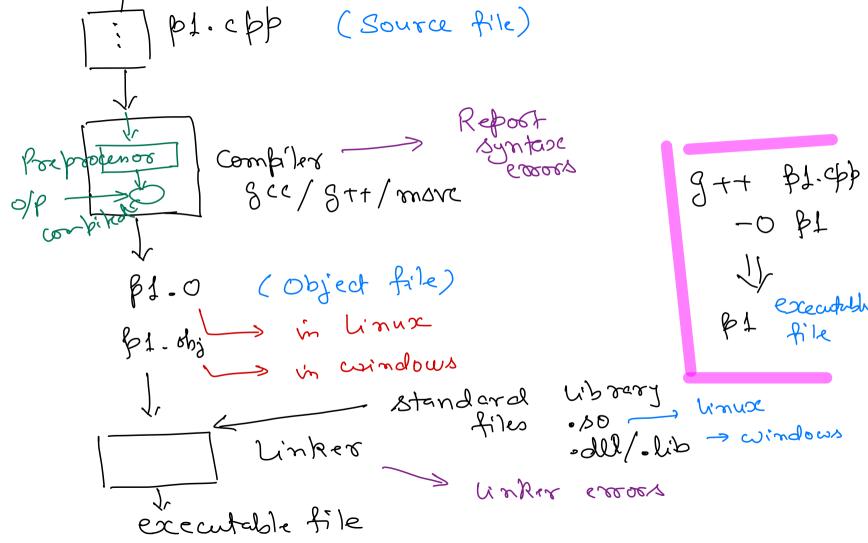
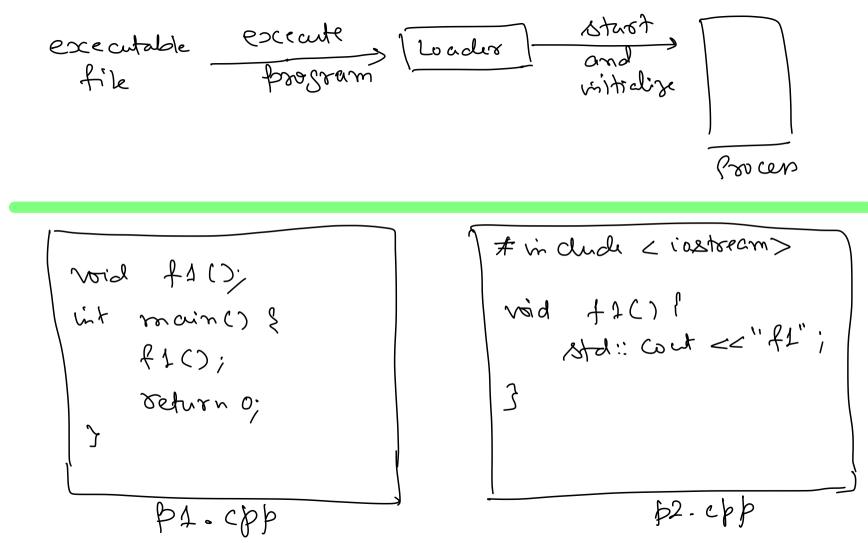
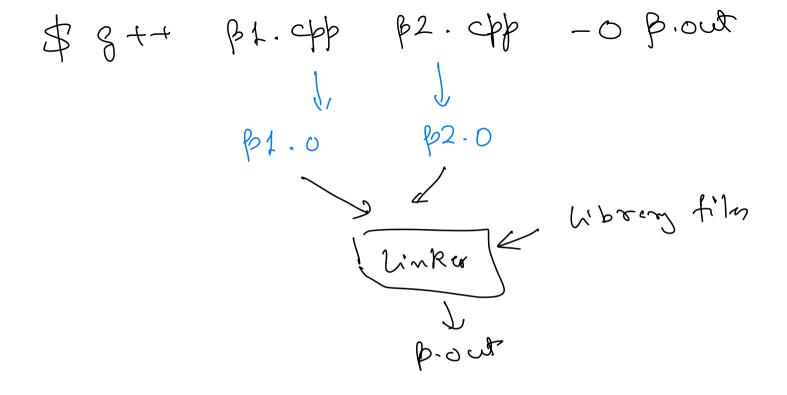
in clude < (ostream) Reader file void f1(); > preprocess int main () } dire dive £1(); return 0; Comment block void \$1() { std: cout << "f1"; Single Vine comment







in clude < iastream> void f1(); mt a=10; 426) (int main() } std: cout << "f1"; f1(); ++a; ++ 0; return o; P1.cpp Compiler error (comp'le not declared/ 200 Mutible worker defined in this

in clude < iastream> int a=10; < definition void follow = esdern int a; ray +1() [main() } std:: cout << "f1"; f1(); ++ a; ++0; return o; 62-cpp P1.cpp didares versidale have in fo will too linker Contrin b2 . 0 to find into about al frition of a definition of p.out

in clude < iastream> void f1() > static wit a=10; rendole vej d main() } int std:: cout /2 "f1"; 41(); ++a; Stratic global } return o; Variable P1.cpp lifetimo usited relup scope entire program global \$20 Secu static global かのいてい pso 12 cm At le only

in clude < i'ustream> # in clude < i'ustream> fs() fs(); vit main () } wit main () } £1(); A1(); 41C); return 0; return of £1() < Migh wit a = 10% Std:: coul << a; std:: cont << a;

statement block studement block garbage \ocal Stutic local staterount block / forogram value of studie local variable is retained between different calls to same function. Statie local variable 2) Wes

Vifetime

intral valle

scope

in clude < i'ustream> ichor tow set tow wit main() } whx=11(5); #A1 'ral x= f1(6); #A21 # A2 return of Stores value of actual astrucut, return laddress \$1(mt rel) { Mr. g ral int a = ral; metu data trame std: cout << a; memor > Call Stuck used to make rochion a; \ocal function culls. varables

to redure value from function, noomally CPU registers Some Func (4); Exercise Tocce some Func (mt n) { fur chion if ((n = = 1) 11 (n = = 2))call using call stude return 1; return some Func (n-1) some Func (n-2)

: globel, stutic global and Memory for State Tocal is allocated in date segment vist sumInt (vist a, int b) ? Junction
overloadin

compile Schwer a+b;

Compile

time

polymoophism

Abat sumfloat (float a, float b) } return a + b;

Function over loading Is function names must be same.

In there must be a difference in assument hist. In number of argument (1). int a = 5, b = 10; float f1=1.0, f2=2.5% Sum (a, b). -> sum (int, int)

mangled. C++ function samos CLE ocuse manglin generate unique names for each function int sum (mit a, int b)? => sum@i@i floot sum (floot a, Hotb)? sum ef ef

 $f1(5); \longrightarrow Op: 50$ P1 (5, 10). → OSP: 5 10 void f1(int a, int b = 0) { 8td: cost << a default 22 bj value to function aggurarent

f2(vit a20, vit b) (if an argument is taking default value then all argument to right of it must also take default values. void {1 (int a) }

mid + 1 (wit a, wit b = 0) {

f1(10):X7 ambigious

int main() ? int a = 5, b = 10;t=a; a=b; b=t; A two nit return 0;

scuap (vint a, vint b) } t= a; a= b; b= t; main() { mt x=5, / ZZ 97 -> 9/P 5 10 std: cout swap (x ofd: cont << x << y; ochurn;

Call by value -> Copy of actual argument is roade in too roal argument of any changes to for sold any do not reflect back to a chial. Pan by reference - alian to an excioting ratable.

void surp (virtla, virtla)? to wit to reference to a = b; b= to rariables

int main () } int x = 5, y=10; std:: cout << >c << >y swop (x, y); std:: cont << x << 4; %: 10 5 John Oi