=168->11pm \$ \$ 100ps (onreps

OOPs Class-2

Special class

2) String => STL wing DOPS

Student SI (----ch); Student SZ;

S2=SIj => Copy Ctor

=) Q) Shot of SI; => By default Complier add default (tr.

-) Copy And define nai tigg 52=51; -) Compiler's default copy Chr added

-) Shallow (opy **

int $\alpha = \frac{1}{5}$; —) do int copy hotalia,

=) Jah main S2 = S1; —) Two Students will be copied. =) C/ Bans Student (const Student & srcobj) This-rame = Srobj. name; this-sid = Srobj. id; mis -) gf = Srobj.gf;

we need copy the? deep Copy Krniho... Depy-Deep copy / A =) Shallow vs Deep Copy

=)

main ()

5 infa;

a = 5;

Why we need copy ctro? Shallow Vs As deep copy

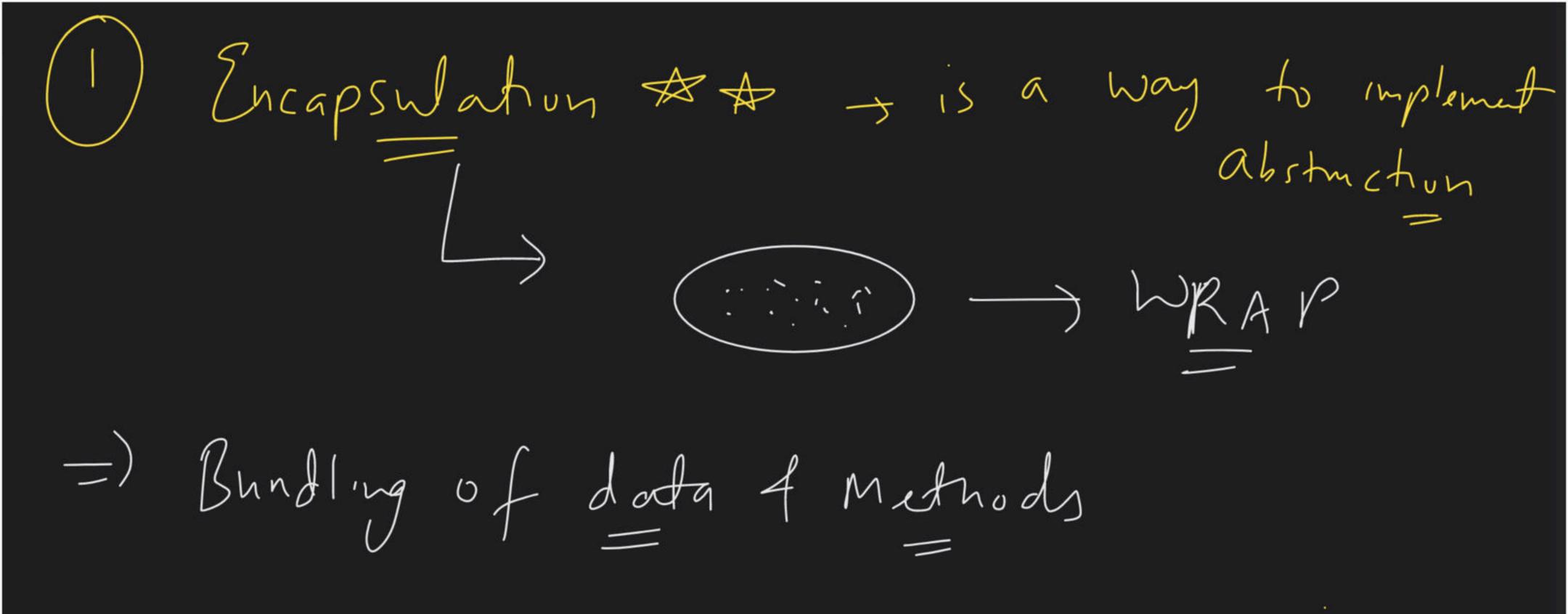
=) main () void fran () Sinta; >> int_b; fun() a = 「 -> b=T retumo; 3 –) Vamoble life cycle (1) init (2) copy (3) dustroy

of an object life cycle =) main() Student SI(----) j -> ctor return o; SIX SI Will be dus troyed;

= (1) (1)(2) dtor -> destructor =) abtak mene dtor banaga 27 =) if you don't write dtor, compiler will take the responsibility 2 min paani Break 1 akshoy K12 1 m

=) (1) pillar of oops Abstraction > loose coupling drive 2 phone Touch -> Teevar me agr Abstraction To Jeevan aanga hoga AA -) Aap Chizo Ko We Kre ho f rakth dete ho.

Abstract =) # include < 5 trung >



Student SI; Stu 52)

S2. ~ () 52. 52. 5/

=) ling Encapusation? Sany to handle friend kymord ARA 2) Protect Integrity (security) L) control how class data is modified. 3) Maintanaibilly #

=> Perfect Encapsulation) if all data member are private -> Through getter/selter.

=) Inharitence
=)

Maign
orange

eye orange Parent wo altributes,

Son - attributes

Class Animal E Subclass/Childclass/denved -> gaanal)

= Super class Parent clan Base class

Bird 'whom't Intage, Sparrin graning () String Coloryno. of legs; weight edí) fyr Peigon guttering ()

Syntan Closs Childname Pubic Parent_hame { Mode of Inhantence (1) Public 2) Portabe. (3) Protected

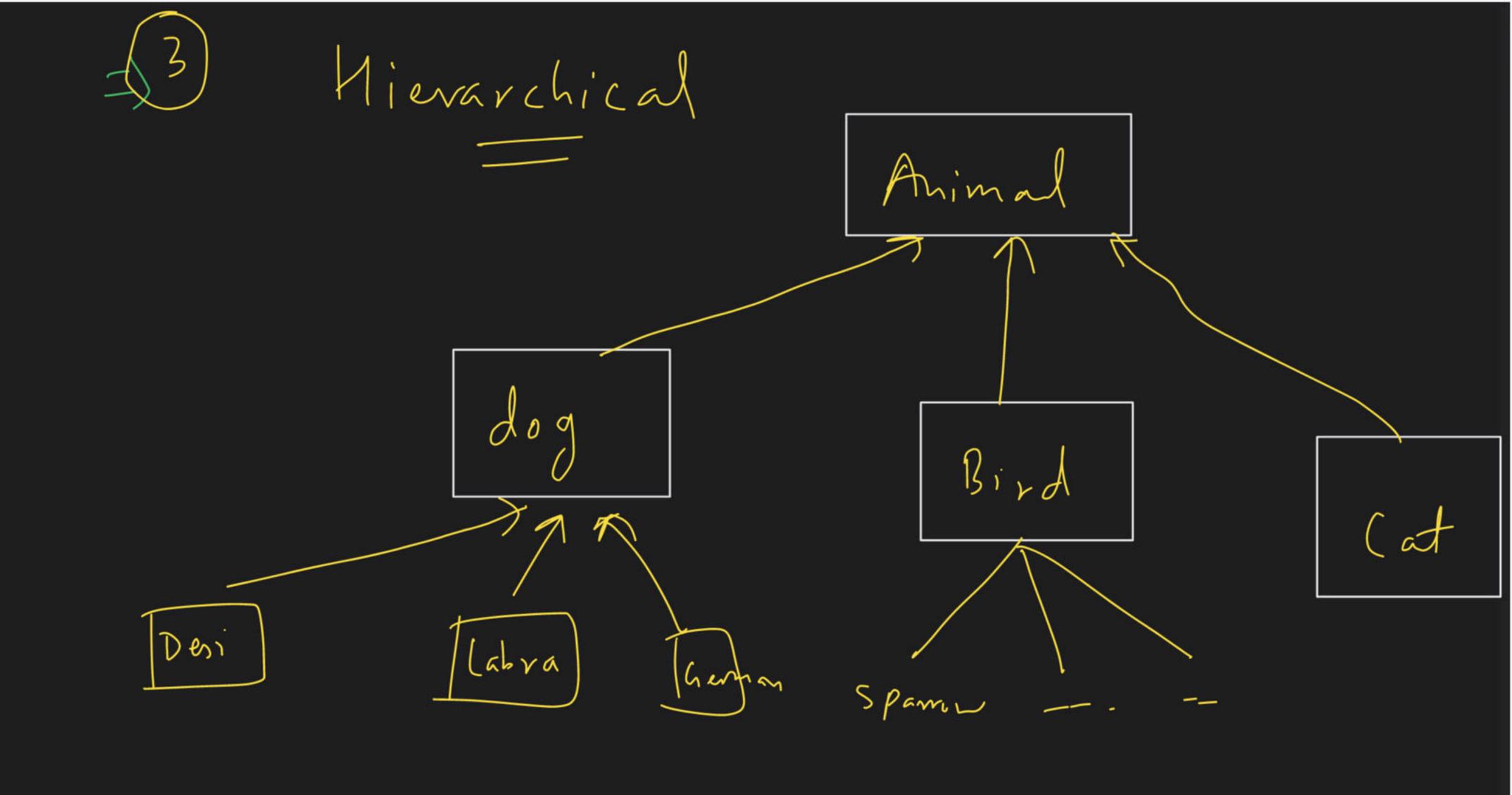
=) Protected =) Members declared Intected are accomible Within class itself of to its derived class. Private -) Within clan hota hai -) derived class visibility Not Possible =) Private daton can't inhent.

Bone clan Mode of Intention Protected Protected Protected Protected Private NA (Not accomible) Private

=) 'is-a' Types of Inhenitence Single=) (Ahimal) Muman Gird

Spamow

(Chain of Inhentence) Multi-Level Fruit Penun Mango employee Alphanso Maragir

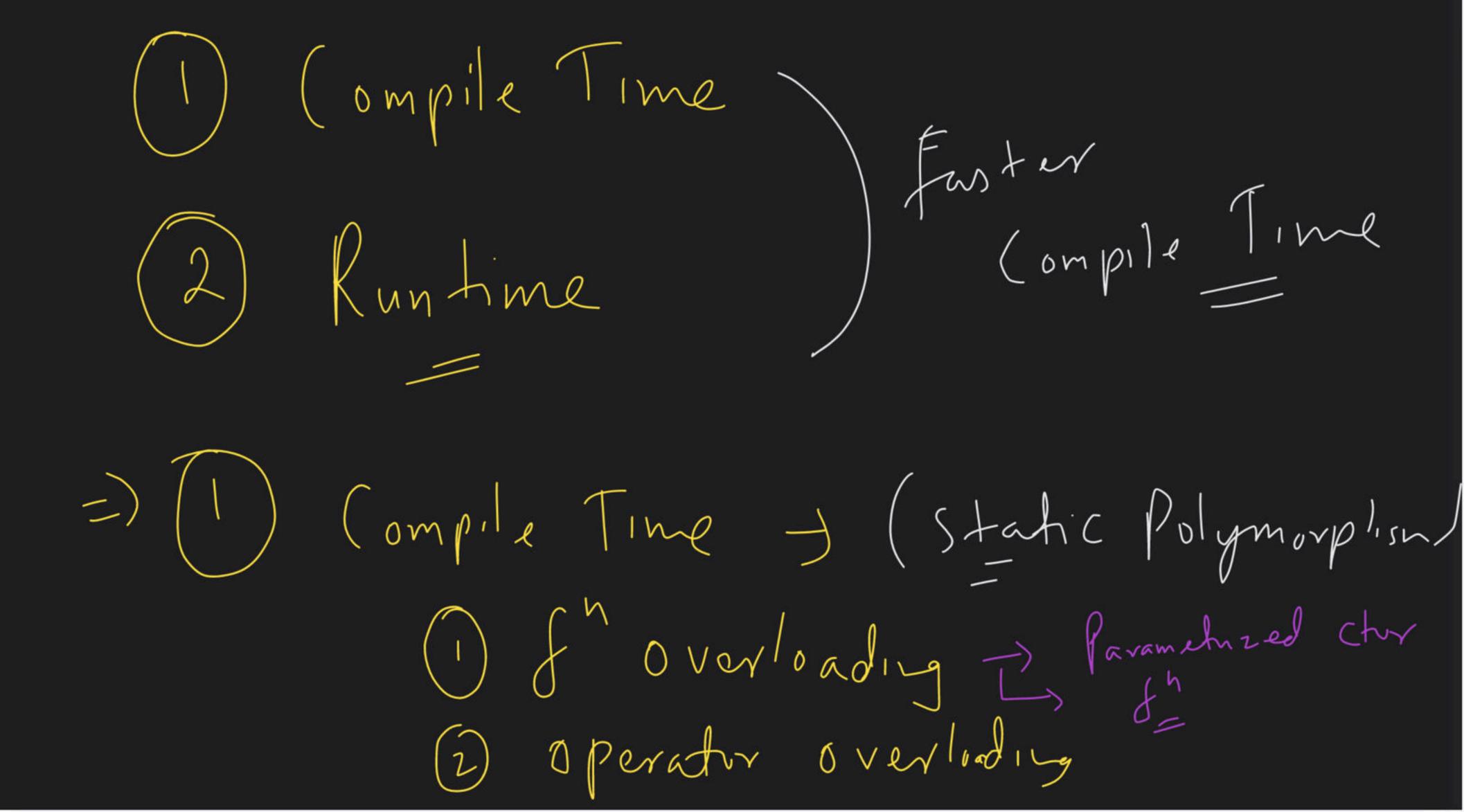


Mulitiple Inhemitance (Not Rossible)
Tava =) Derived class inherits from move than 1 class reacher Researcher > no.of Reference Report

Roye()

- Diamond Problem Walk () 7 Penson Researcher-1 walks Profunor - Smallet

Poly mor phism Many Lormy (m) Pristing in many frm



2) Operator Overloading (1) (1) ----) internet (find all (++
op. Which conbe 6 ver) oraded. Vector $\begin{pmatrix}
\chi_1 \\
y_1
\end{pmatrix}
\begin{pmatrix}
\chi_1 \\
y_2
\end{pmatrix}
=
\begin{pmatrix}
\chi_1 \\
y_1
\end{pmatrix}
\begin{pmatrix}
\chi_2 \\
y_1
\end{pmatrix}$

(SYC -) VZ Void operator + (rount Vecture syc) かis か X = this カスナ (Y (, ス) 3 11 ー) ガ = 11 ー) サナ (Y (. ソ)

Syl Scope Resolution

Stope Resolution

Wring Virtual

and W17 halls P. Walk ()