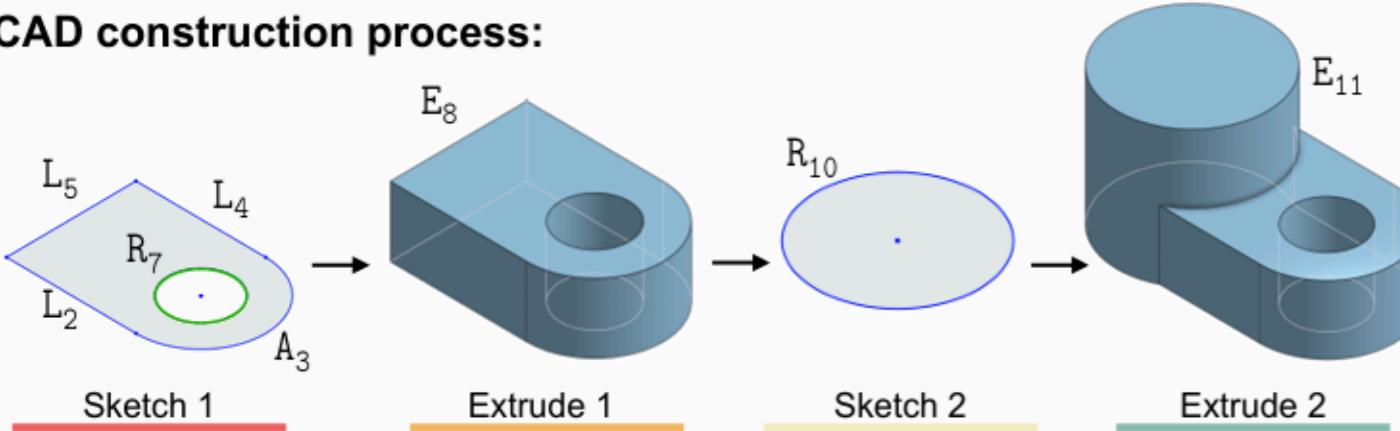


CAD construction process:



Parametrized command sequence:

$\langle \text{SOL} \rangle_1 : \emptyset$

$L_2 : (2, 0)$

$A_3 : (2, 2, \pi, 1)$

$L_4 : (0, 2)$

$L_5 : (0, 0)$

$\langle \text{SOL} \rangle_6 : \emptyset$

$R_7 : (2, 1, 0.5)$

$E_8 : (0, 0, 0, -2, -1, 0, 3, 1, 0, \text{New body}, \text{One-sided})$

$\langle \text{SOL} \rangle_9 : \emptyset$

$R_{10} : (0, 0, 1.125)$

$E_{11} : (0, 0, 0, -2, 0, 0, 2.25, 2, 0, \text{Join}, \text{One-sided})$

$\langle \text{EOS} \rangle_{12} : \emptyset$

index	token (CAD command, t_i)	embedding (parameters, \mathbf{p}_i)
0	$\langle \text{SOL} \rangle$	\emptyset
1	Line	$[x, y, \square, \square]$
2	Arc	$[x, y, \alpha, f, \square, \square]$
3	Circle	$[x, y, \square, \square, r, \square, \square]$
4	Extrude	$[\square, \square, \square, \square, \square, \theta, \phi, \gamma, p_x, p_y, p_z, s, e_1, e_2, b, u]$
5	$\langle \text{EOS} \rangle$	\emptyset
<hr/>		
L (Line)		x, y : line end-point
<hr/>		x, y : arc end-point
A (Arc)		α : sweep angle
<hr/>		f : counter-clockwise flag
R (Circle)		x, y : center
<hr/>		r : radius
<hr/>		θ, ϕ, γ : sketch plane orientation
E (Extrude)		p_x, p_y, p_z : sketch plane origin
<hr/>		s : scale of associated sketch profile
<hr/>		e_1, e_2 : extrude distances toward both sides
<hr/>		b : boolean type, u : extrude type