





- □ The extensive Pro/ENGINEER API Toolkit provides programmatic access for creating, interrogating, and manipulating almost every aspect of the engineering model and its data management.
 - automating the creation of complex features
 - automating the production of Pro/ENGINEER deliverables, such as BOMs, drawings, and manufacturing operations
 - improving product quality by performing design rule verification based on inputs from an external, knowledge-based system.



Pro/INTRALINK Access

- □ The Pro/E API Toolkit provides complete access to the information within the Pro/INTRALINK environment, allowing customers to further leverage the product information contained within Pro/INTRALINK.
- □ Specifically, this functionality allows:
 - Integration with MRP/ERP Systems
 - Custom client applications, such as Web integrated clients
 - Triggered verification, notification and enforcement of business process actions















```
ADD FEATURE (initial number 8)
INTERNAL FEATURE ID 106
PARENTS = 100(\#7)
PROTRUSION: Extrude
 NO.
      ELEMENT NAME
                         INFO
                   -----
      -----
 ---
 1
      Feature Name
                    Defined
 2
      Extrude Feat type Solid
 3
                   Add
      Material
 4
      Section
                   Defined
 4.1 Reference Sketch F7(SKETCH_2)
                     Solid
 5
      Feature Form
      Direction
                    Side 2
 6
 7
      Depth
                    Defined
 7.1 Side One
                    Defined
 7.1.1 Side One Depth None
 7.2 Side Two
                     Defined
 7.2.1 Side Two Depth Variable
 7.2.2 Value
                    70.00
SECTION NAME = Sketch 2
FEATURE'S DIMENSIONS:
d11 = 70.00
END ADD
Additional operations can be added, and this ADD operation can be changed.
```











The List of the Pro/E PROGRAM for this Part Model

VERSION 2.0 REVNUM 365 LISTING FOR PART LESSON5

INPUT END INPUT

RELATIONS END RELATIONS

ADD FEATURE (initial number 1) INTERNAL FEATURE ID 1

DATUM PLANE

NO. ELEMENT NAME INFO I Feature Name Defined
 Constraints Defined
 Constraints Defined
 L1 Constraint #1 Defined
 L1 Constraint #2
 Flip Datum Dir Defined
 Flip Defined
 L1 Fit Type Default

NAME = RIGHT

END ADD

ADD FEATURE (initial number 2) INTERNAL FEATURE ID 3

DATUM PLANE

NO. ELEMENT NAME INFO --- -----

1 Feature Name Defined 2 Constraints Defined 2.1 Constraint #1 Defined 2.1.1 Constr Type Y Axis 3 Filp Datum Dir Defined 4 Fit Defined 4.1 Fit Type Default NAME = TOP END ADD ADD FEATURE (initial number 3) INTERNAL FEATURE ID 5 DATUM PLANE NO. ELEMENT NAME INFO Peanse Nume Defined
 Constraints Defined
 Constraints Defined
 L1 Constraint #1 Defined
 L1 Constraint #1 Defined
 Fit Defined
 Fit Defined
 Hit Type Default

NAME = FRONT END ADD

ADD FEATURE (initial number 4) INTERNAL FEATURE ID 7 PARENTS = 1(#1) 3(#2) 5(#3)

PROTRUSION: Extrude

NO. ELEMENT NAME INFO	NO. ELEMENT NAME INFO
1 Feature Name Defined	1 Feature Name Defined
2 Extrude Feat type Solid	2 Extrude Feat type Solid
3 Material Add	3 Material Add
4 Section Defined	4 Section Defined
4.1 Setup Plane Defined	4.1 Setup Plane Defined
4.1.1 Sketching Plane FRONT:F3(DATUM PLANE)	4.1.1 Sketching Plane Surf:F4(PROTRUSION)
4.1.2 View Direction Side 1	4.1.2 View Direction Defined
4.1.3 Orientation Top	4.1.3 Orientation Right
4.1.4 Reference TOP:F2(DATUM PLANE)	4.1.4 Reference Surf:F4(PROTRUSION)
4.2 Sketch Defined	4.2 Sketch Defined
5 Feature Form Solid	5 Feature Form Solid
6 Direction Side 2	6 Material Side Side Two
7 Depth Defined	7 Direction Side 2
7.1 Side One Defined	8 Depth Defined
7.1.1 Side One Depth None	8.1 Side One Defined
7.2 Side Two Defined	8.1.1 Side One Depth None
7.2.1 Side Two Depth Variable	8.2 Side Two Defined
7.2.2 Value 10.00	8.2.1 Side Two Depth Variable
	8.2.2 Value 5.00
NAME = BLOCK	
SECTION NAME = S2D0001	NAME = ROUND_END
	SECTION NAME = S2D0002
FEATURE'S DIMENSIONS:	OPEN SECTION
12 = 20.00	
<u>13</u> = 10.00	FEATURE'S DIMENSIONS:
14 = 10.00	d9 = 5.00
END ADD	END ADD
ADD FEATURE (initial number 5)	ADD FEATURE (initial number 6)
NTERNAL FEATURE ID 28	INTERNAL FEATURE ID 52
PARENTS = 7(#4)	PARENTS = 7(#4) 28(#5)
PROTRUSION: Extrude	CUT: Extrude





