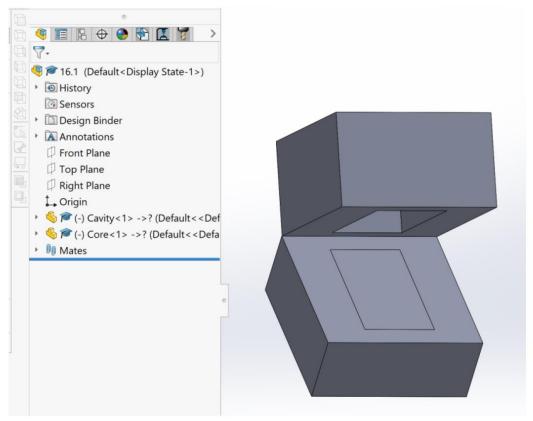
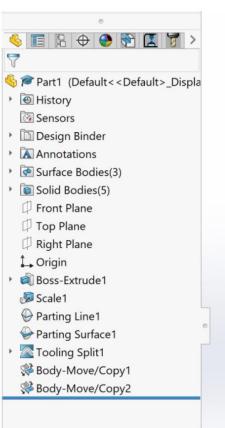
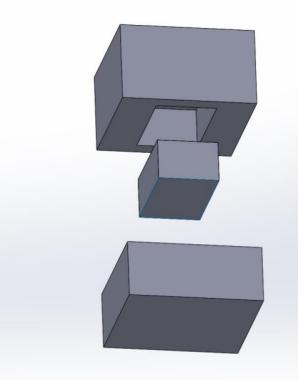
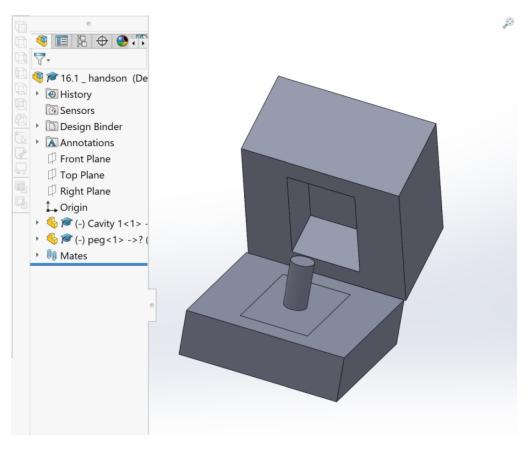
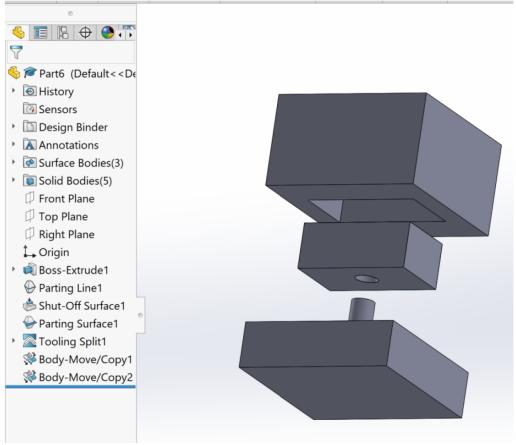
Part Design

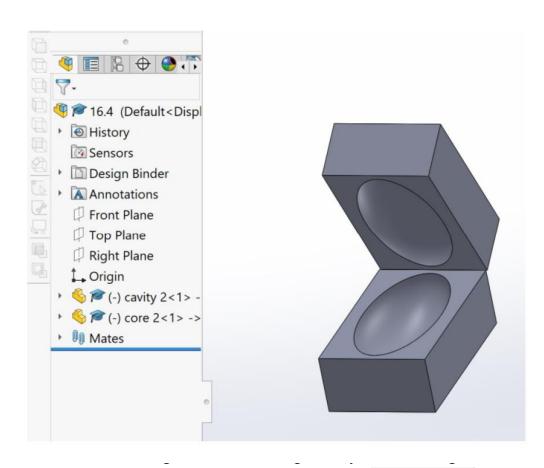


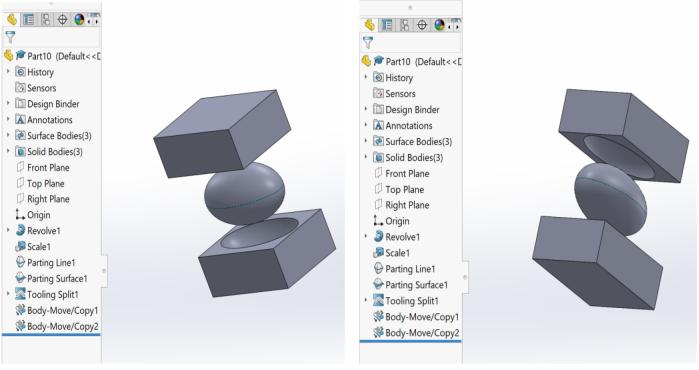


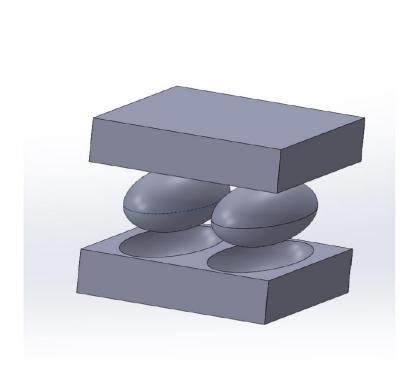


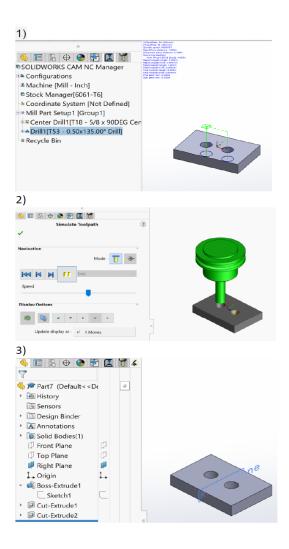




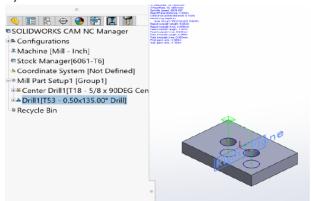




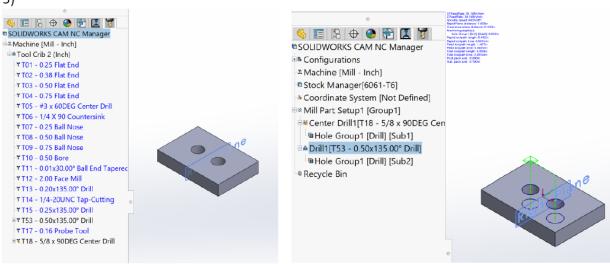








5)

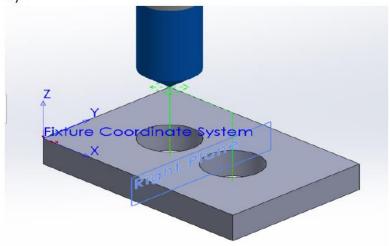


6)

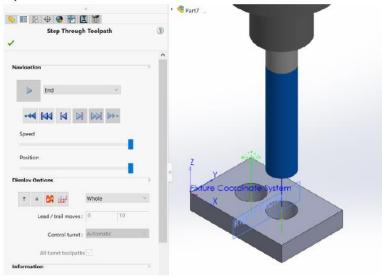
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1 00001
2 N1 G20
3 N2 (5/8 X 90DEG CBT SPOT DRILL)
4 N3 G91 G28 X0 Y0 Z0
5 N4 T18 M06
6 N5 S5000 M03
8 N6 ( Center Drill1 )
9 N7 G90 G54 G00 X-.5 Y0
10 N8 G43 Z1. H18 M08
11 N9 G82 G98 R.1 Z-.225 P1000 F2.5
12 N10 X.5
13 N11 G80 Z1. M09
14 N12 G91 G28 Z0
15 N13 (1/2 SCREW MACH DRILL)
16 N14 T16 M06
17 N15 S6829 M03
19 N16 ( Drill1 )
20 N17 G90 G54 G00 X-.5 Y0
21 N18 G43 Z1. H16 M08
22 N19 G83 G98 R.1 Z-.6034 Q.1 F34.1483
23 N20 X.5
24 N21 G80 Z1. M09
25 N22 G91 G28 Z0
26 N23 G28 X0 Y0
27 N24 M30
28
```

```
00001
N1 G20
N2 (5/8 X 90DEG CBT SPOT DRILL)
N3 G91 G28 X0 Y0 Z0
N4 T18 M06
N5 S5000 M03
N6 ( Center Drill1 )
N7 G90 G54 G00 X-.5 Y0
N8 G43 Z1. H18 M08
N9 G82 G98 R.1 Z-.225 P1000 F2.5
N10 X.5
N11 G80 Z1. M09
N12 G91 G28 Z0
N13 (1/2 SCREW MACH DRILL)
N14 T53 M06
N15 S6829 M03
N16 ( Drill1 )
N17 G90 G54 G00 X-.5 Y0
N18 G43 Z1. H53 M08
N19 G83 G98 R.1 Z-.6034 Q.1 F34.1483
N20 X.5
N21 G80 Z1. M09
N22 G91 G28 Z0
N23 G28 X0 Y0
N24 M30
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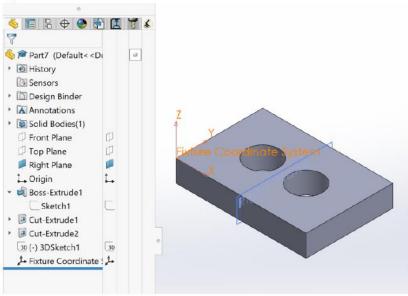


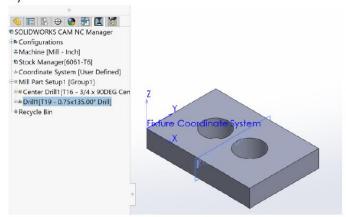


2)

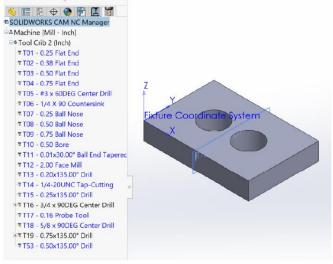


3)



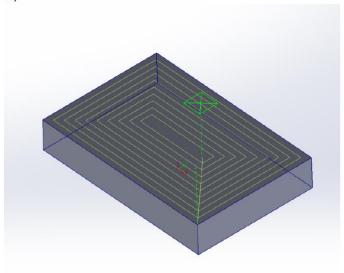


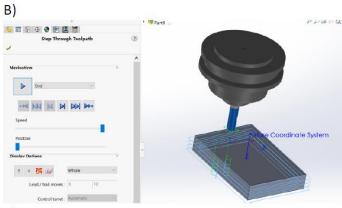
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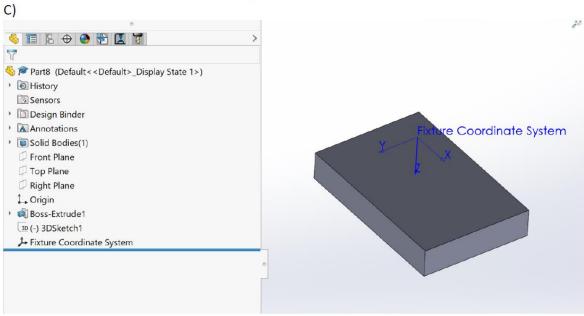


6)

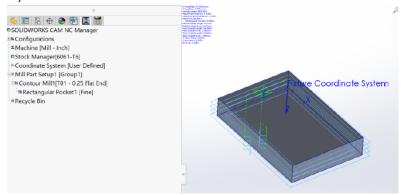
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00001
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N2 (3/4 X 90DEG CBT SPOT DRILL)
N3 G91 G28 X0 Y0 Z0
N4 T16 M06
N5 S4991 M03
N6 ( Center Drill1 )
N7 G90 G54 G00 X1. Y1.
N8 G43 Z1. H16 M08
N9 G82 G98 R.1 Z-.3375 P1000 F26.4528
N10 X2.
N11 G80 Z1. M09
N12 G91 G28 Z0
N13 (3/4 SCREW MACH DRILL)
N14 T19 M06
N15 S4991 M03
N16 ( Drill1 )
N17 G90 G54 G00 X1. Y1.
N18 G43 Z1. H19 M08
N19 G83 G98 R.1 Z-.6551 Q.1 F26.4528
N20 X2.
N21 G80 Z1. M09
N22 G91 G28 Z0
N23 G28 X0 Y0
N24 M30
```



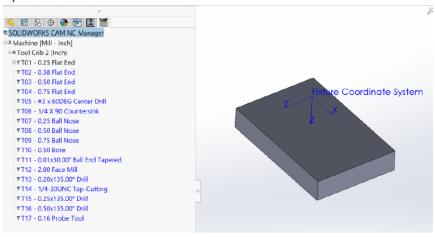




D)

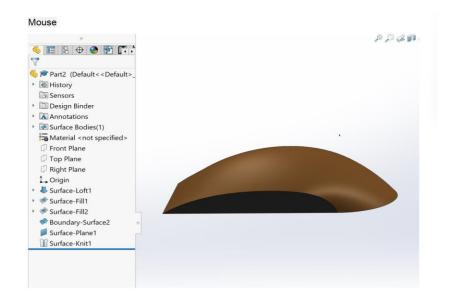


E)



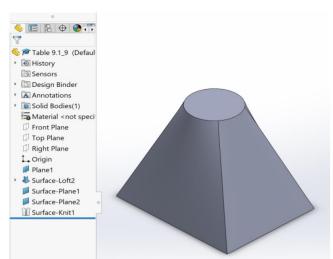
F)

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00001
N1 G20
N2 (3/4 X 90DEG CBT SPOT DRILL)
N3 G91 G28 X0 Y0 Z0
N4 T16 M06
N5 S4991 M03
N6 ( Center Drill1 )
N7 G90 G54 G00 X1. Y1.
N8 G43 Z1. H16 M08
N9 G82 G98 R.1 Z-.3375 P1000 F26.4528
N10 X2.
N11 G80 Z1. M09
N12 G91 G28 Z0
N13 (3/4 SCREW MACH DRILL)
N14 T19 M06
N15 S4991 M03
N16 ( Drill1 )
N17 G90 G54 G00 X1. Y1.
N18 G43 Z1. H19 M08
N19 G83 G98 R.1 Z-.6551 Q.1 F26.4528
N20 X2.
N21 G80 Z1. M09
N22 G91 G28 Z0
N23 G28 X0 Y0
N24 M30
```

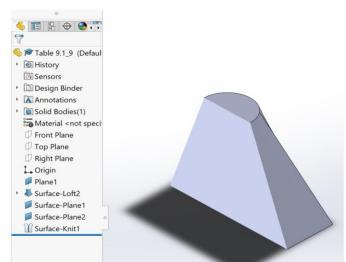


6. A) Convert a surface to a solid.

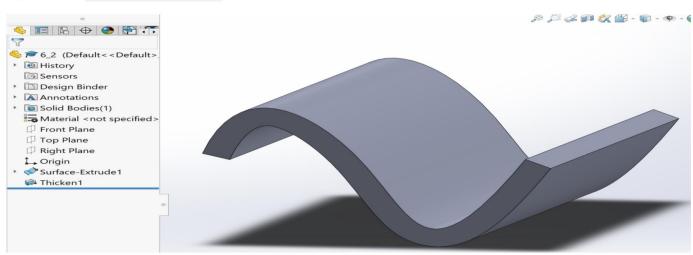
Solid body - knit surface



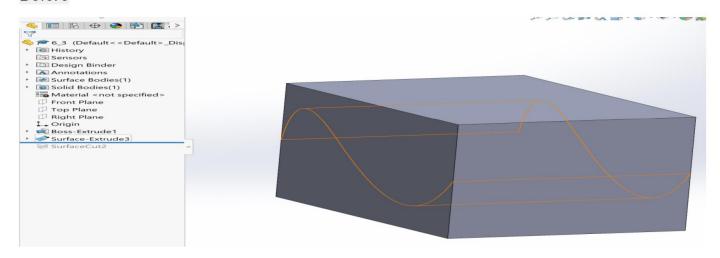
showing solid being cut



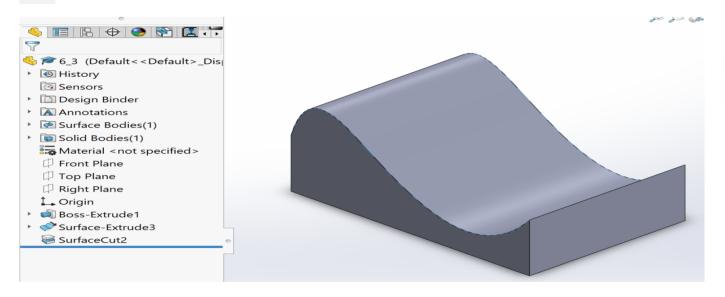
B) Thicken a surface.



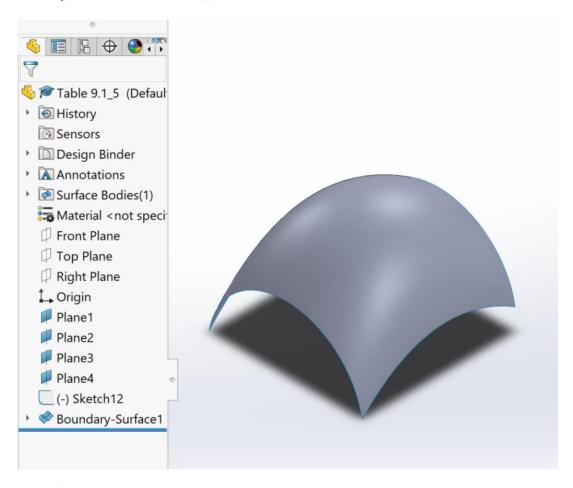
Before



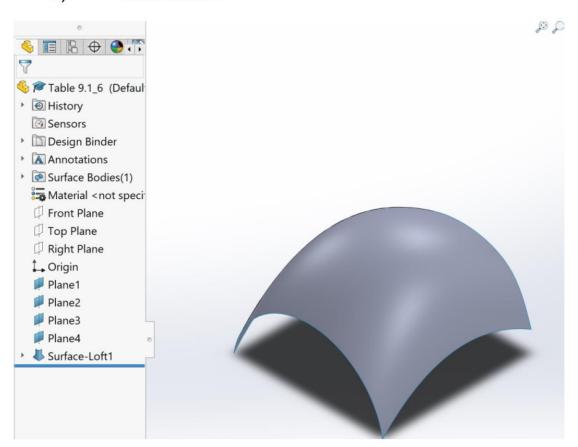
After



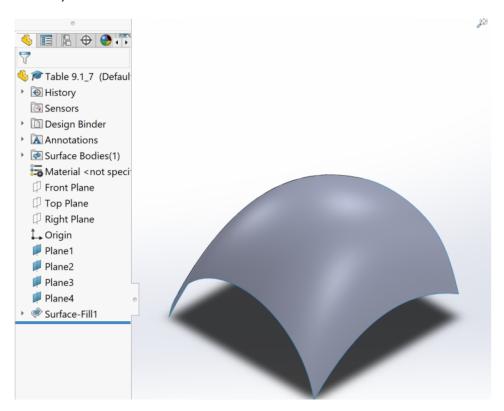
i) Boundary surface



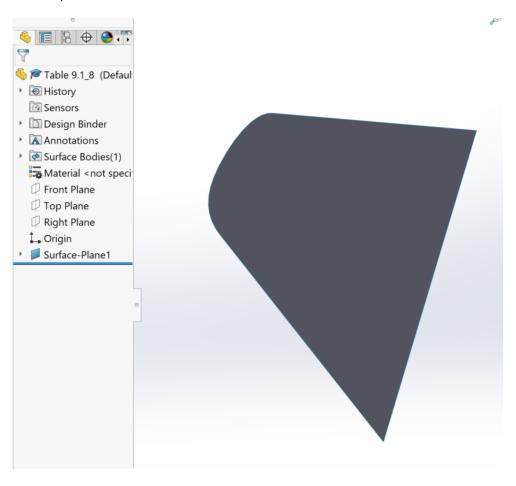
ii) Loft surface



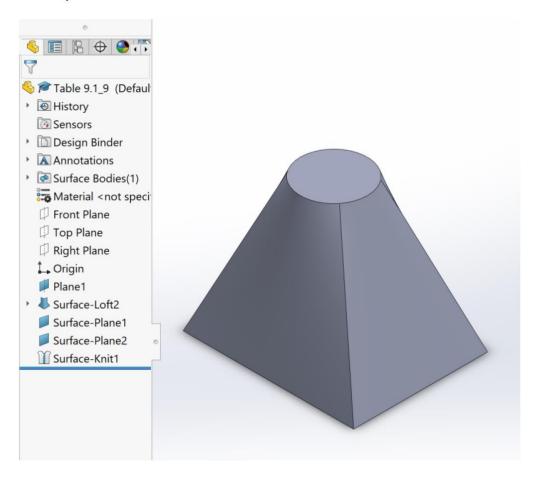
iii) Filled surface



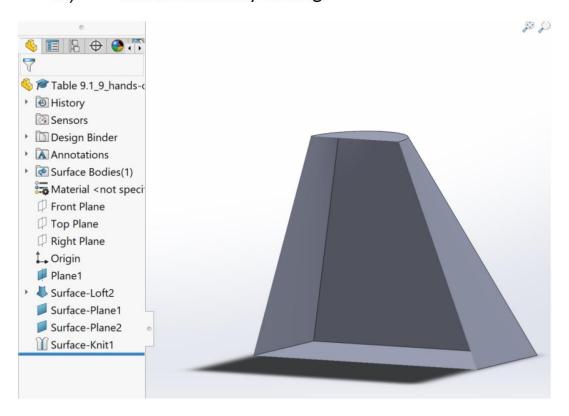
iv) Planar surface



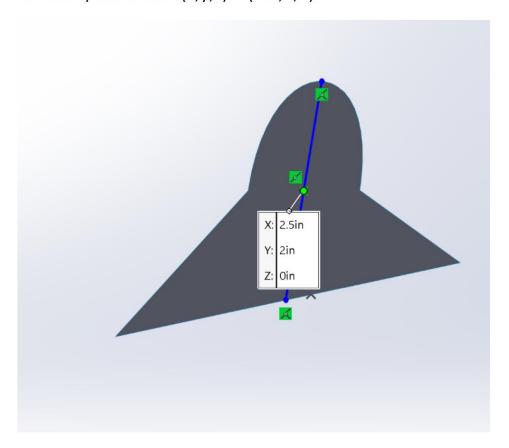
v) Knit surface



vi) Inside shown by cutting



The Midpoints are : (x,y,z) = (2.5,2,0)



Example 9.4 Hans-on. Submit a screenshot showing the sweep.

