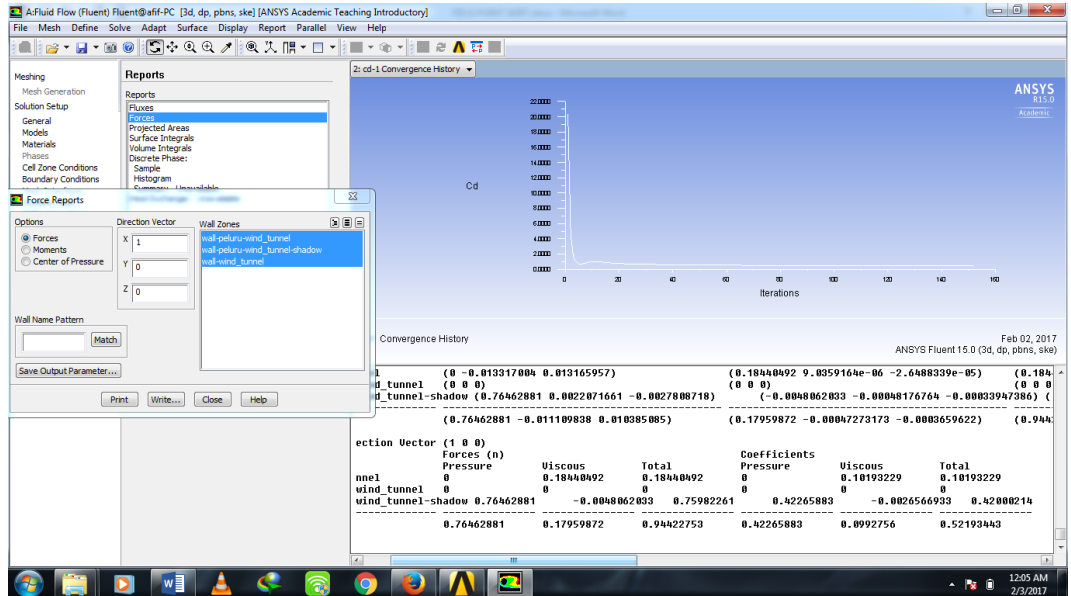
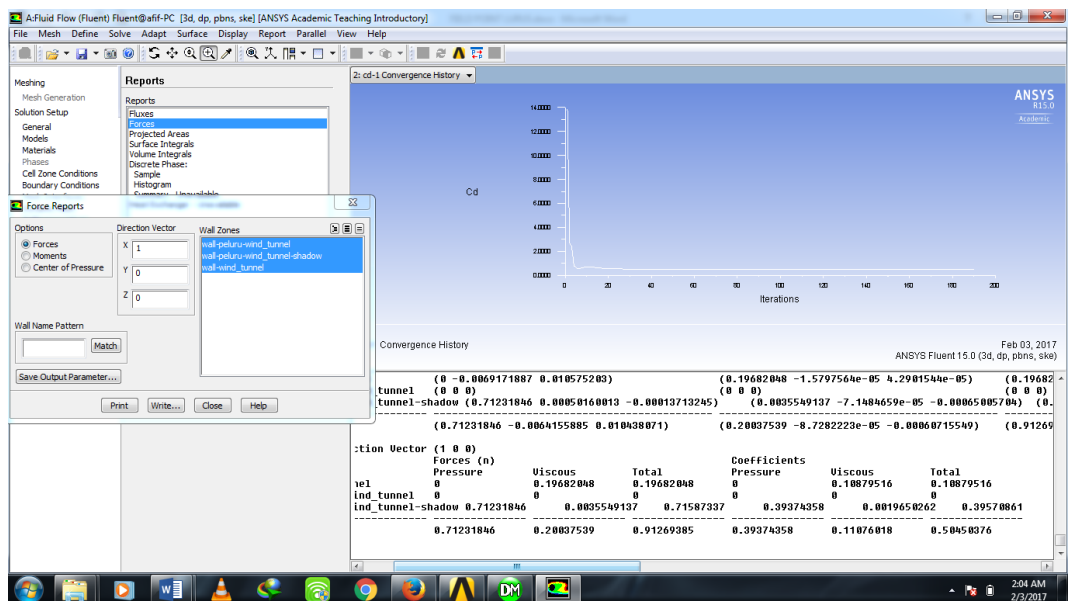


LAMPIRAN I

1. Nilai drag coefficient field point skirt



2. Nilai drag coefficient field point lurus



Direction Vector (1 0 0)		Forces (n)			Coefficients		
Pressure		Viscous	Total	Pressure	Viscous	Total	
inlet	0	0.19682048	0.19682048	0	0.10879516	0.10879516	
ind_tunnel	0	0	0	0	0	0	
ind_tunnel-shadow	0.71231846	0.0035549137	0.71587337	0.39374358	0.0019650262	0.39570861	
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		0.71231846	0.20037539	0.91269385	0.39374358	0.11076018	0.50450376

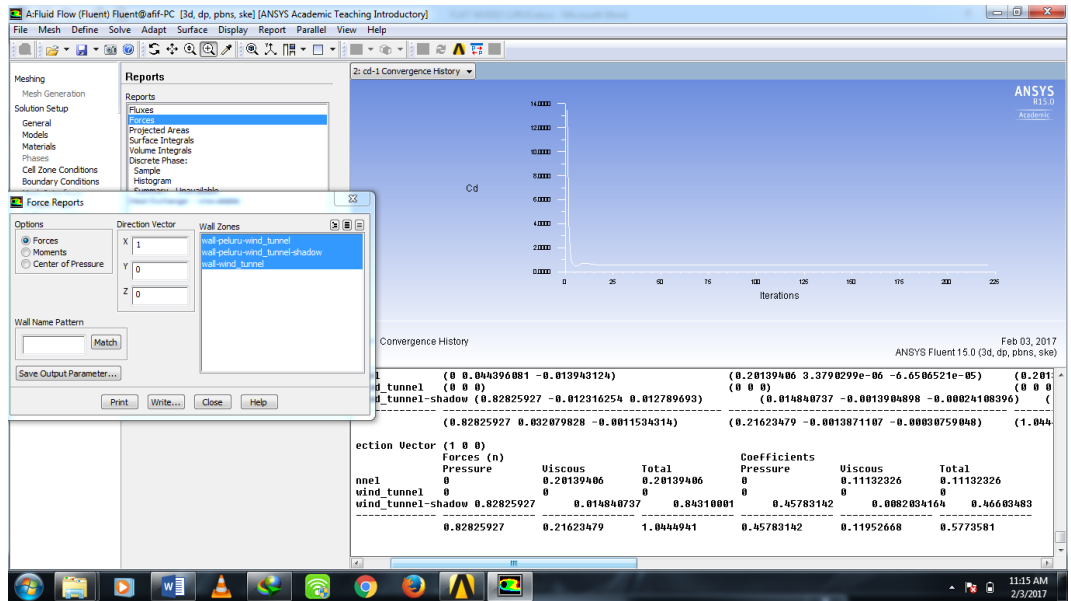
3. Nilai drag coefficient flat nosed skirt

The screenshot shows the ANSYS Fluent interface. A 'Force Reports' dialog box is open, showing the 'ind_tunnel-shadow' wall zone selected. The 'Force Reports' window displays the following data:

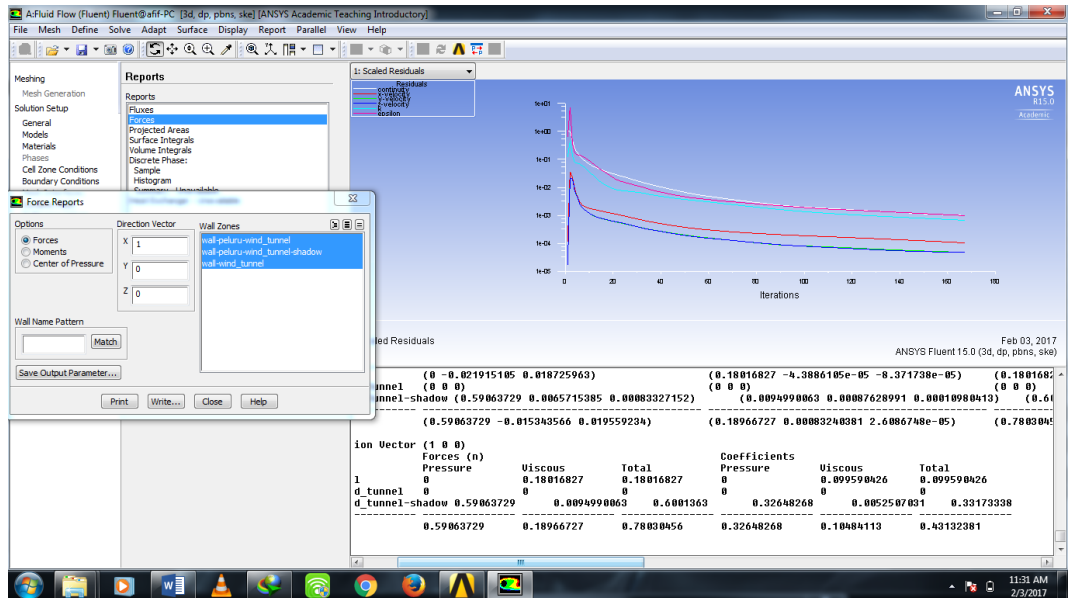
Direction Vector (1 0 0)		Forces (n)			Coefficients		
Pressure		Viscous	Total	Pressure	Viscous	Total	
inlet	0	0.18653318	0.18653318	0	0.10310872	0.10310872	
ind_tunnel	0	0	0	0	0	0	
ind_tunnel-shadow	0.88434883	0.0042925553	0.88864139	0.48883567	0.0023727675	0.49120844	
-----		-----			-----		
		0.88434883	0.19082574	1.0751746	0.48883567	0.10548149	0.59431716

Direction Vector (1 0 0)		Forces (n)			Coefficients		
Pressure		Viscous	Total	Pressure	Viscous	Total	
inlet	0	0.18653318	0.18653318	0	0.10310872	0.10310872	
ind_tunnel	0	0	0	0	0	0	
ind_tunnel-shadow	0.88434883	0.0042925553	0.88864139	0.48883567	0.0023727675	0.49120844	
-----		-----			-----		
		0.88434883	0.19082574	1.0751746	0.48883567	0.10548149	0.59431716

4. Nilai drag coefficient flat nosed lurus

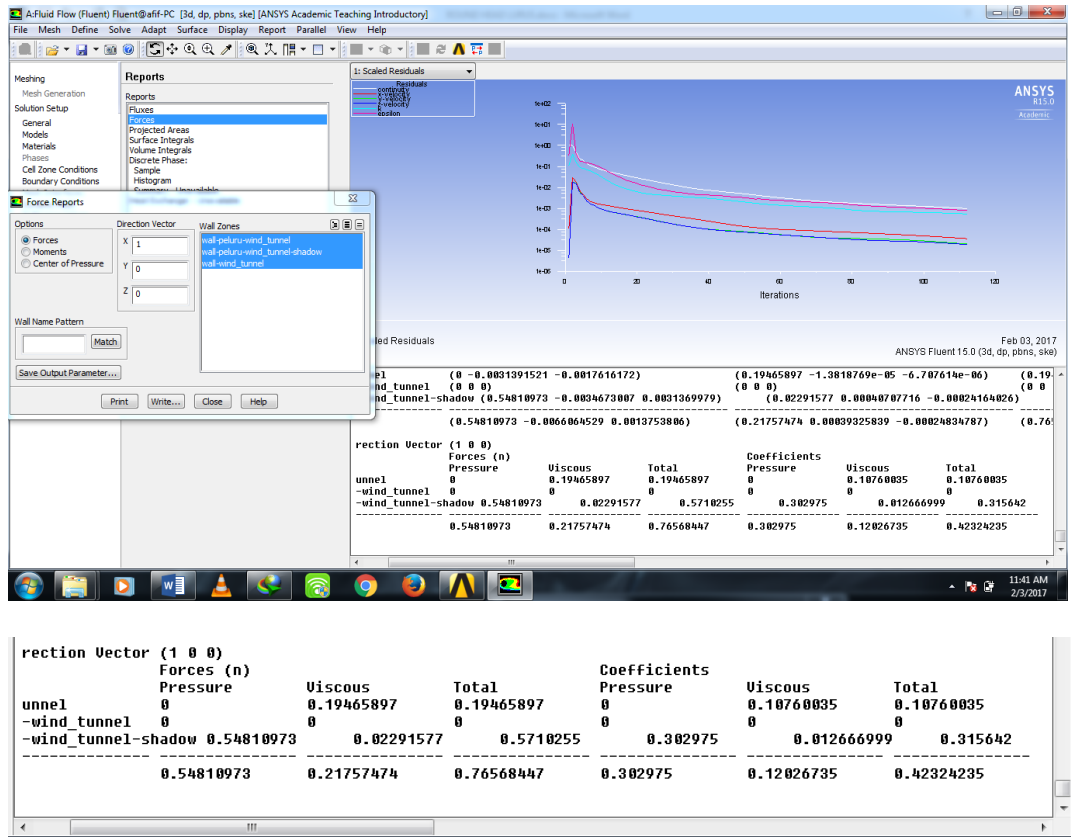


5. Nilai drag coefficient round head skirt



Direction Vector (1 0 0)	Forces (n)			Coefficients		
	Pressure	Viscous	Total	Pressure	Viscous	Total
l	0	0.18016827	0.18016827	0	0.099590426	0.099590426
d_tunnel	0	0	0	0	0	0
d_tunnel-shadow	0.59063729	0.009499063	0.6001363	0.32648268	0.0052507031	0.33173338
	0.59063729	0.18966727	0.78030456	0.32648268	0.10484113	0.43132381

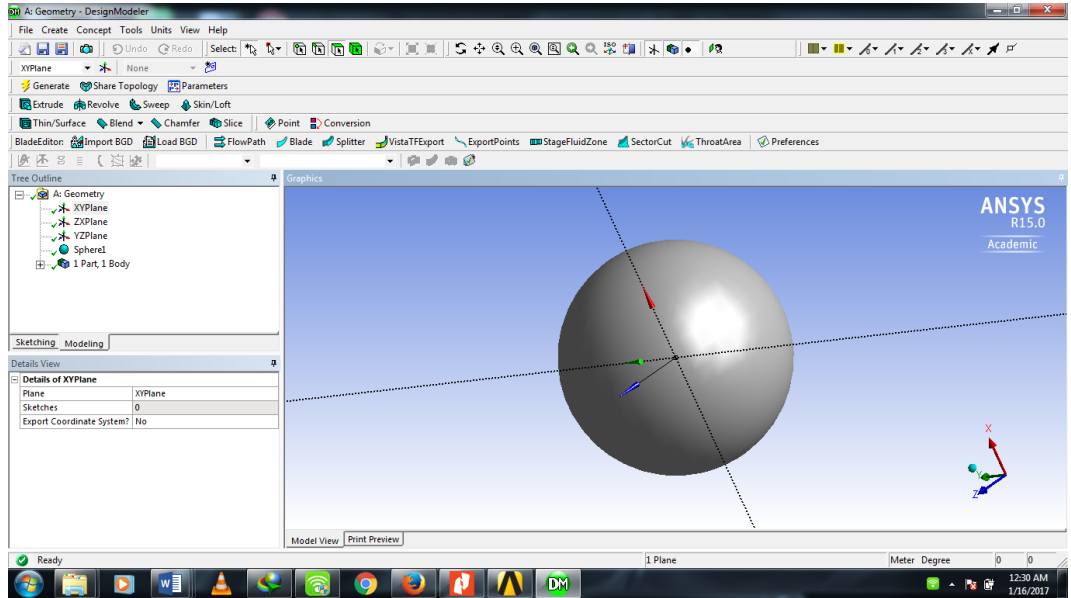
6. Nilai drag coefficient round head lurus



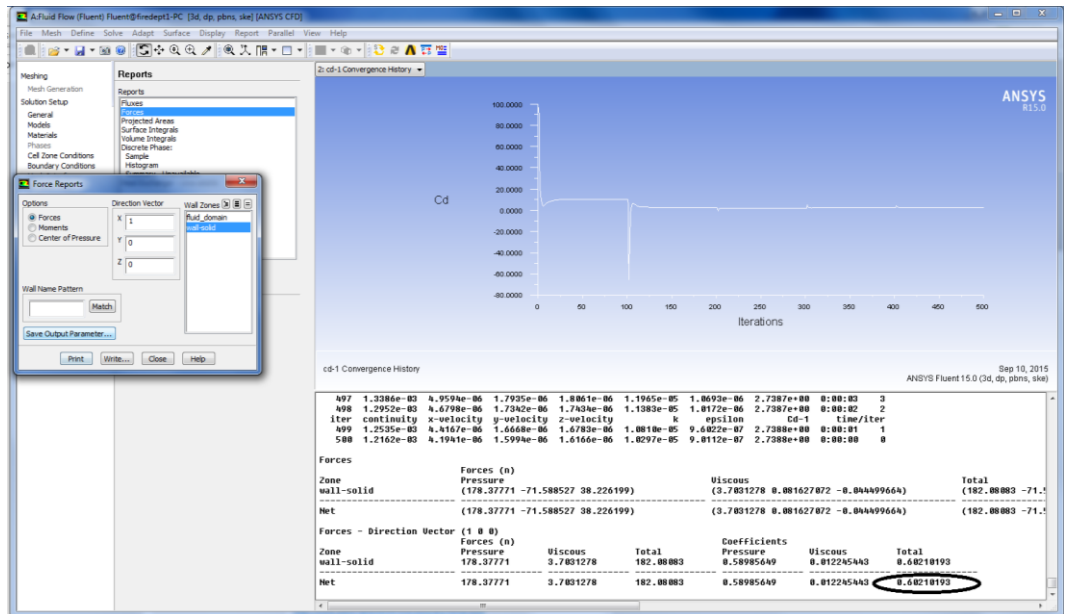
LAMPIRAN II

Validasi software

1. Penggambaran bola



2. Hasil simulasi *ansys fluent*



Zone	Pressure	Viscous	Total	Coefficients Pressure	Viscous	Total
wall-solid	178.37771	3.7831278	182.08083	0.58985649	0.012245443	0.60210193
Net	178.37771	3.7831278	182.08083	0.58985649	0.012245443	0.60210193

3. Perbandingan hasil nilai C_D 