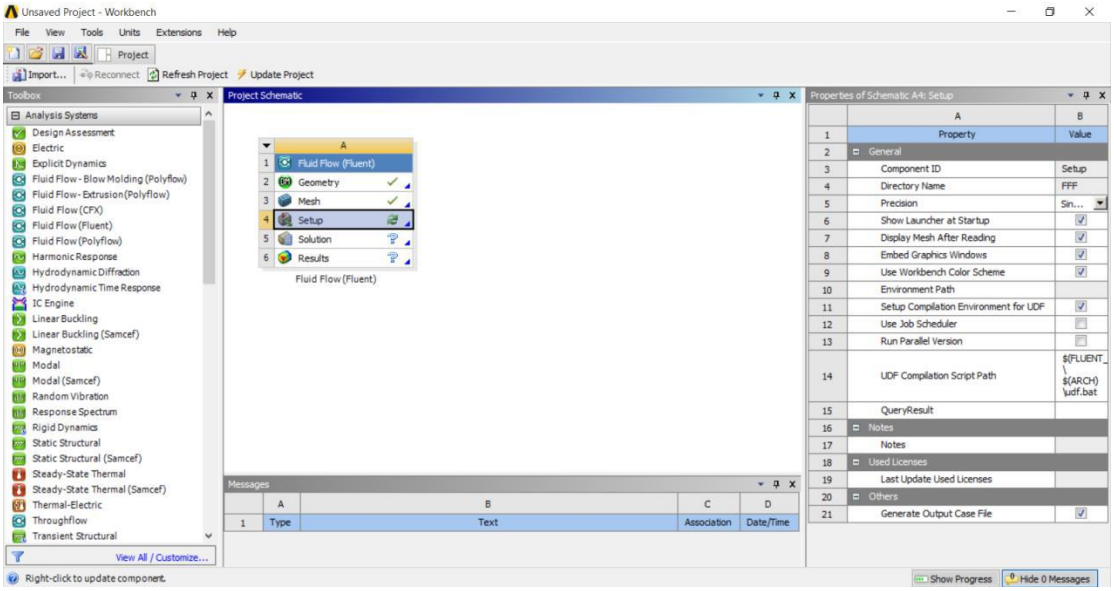
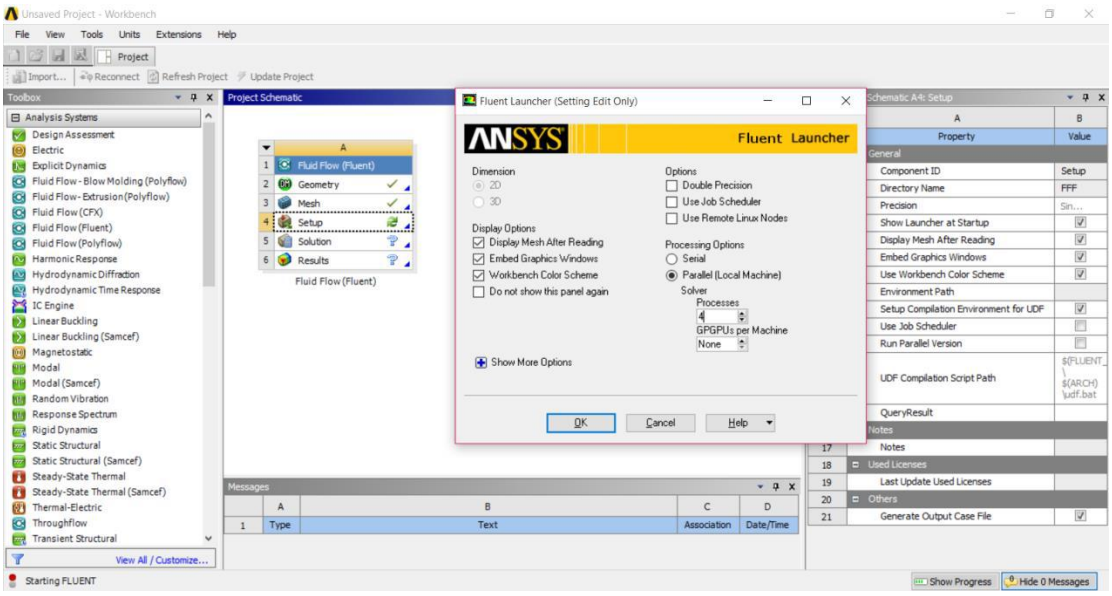
Class: third Stage
Lecturer: Wurood yassin Mohsin
E-mail:wurood.yassin@mustaqbal-college.edu.iq

Set up

1- Analysis systems ⟶ fluid flow (fluent) ⟶ setup.





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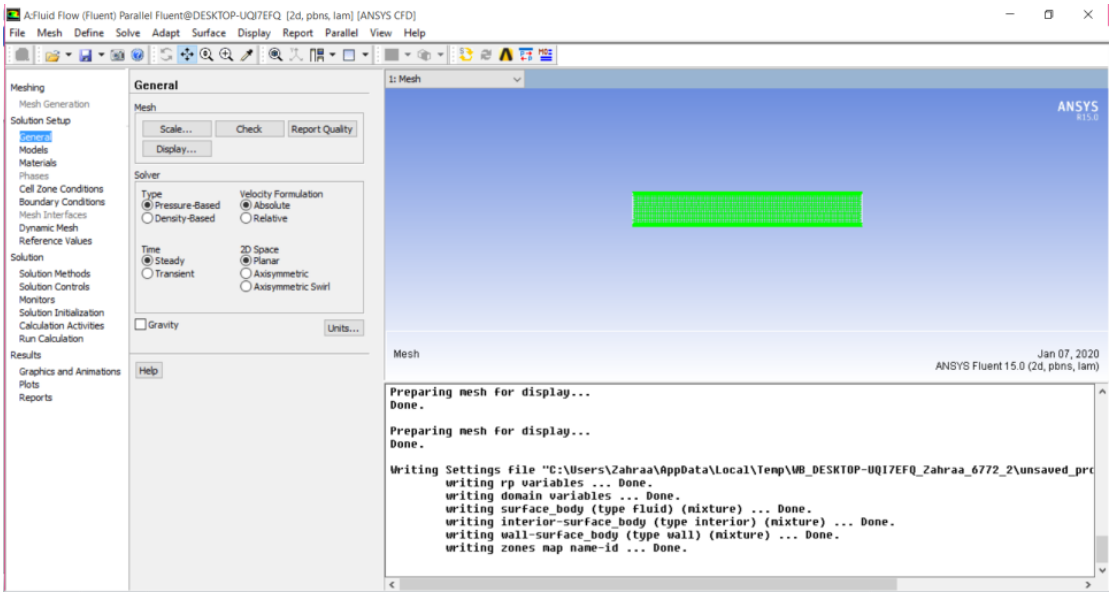
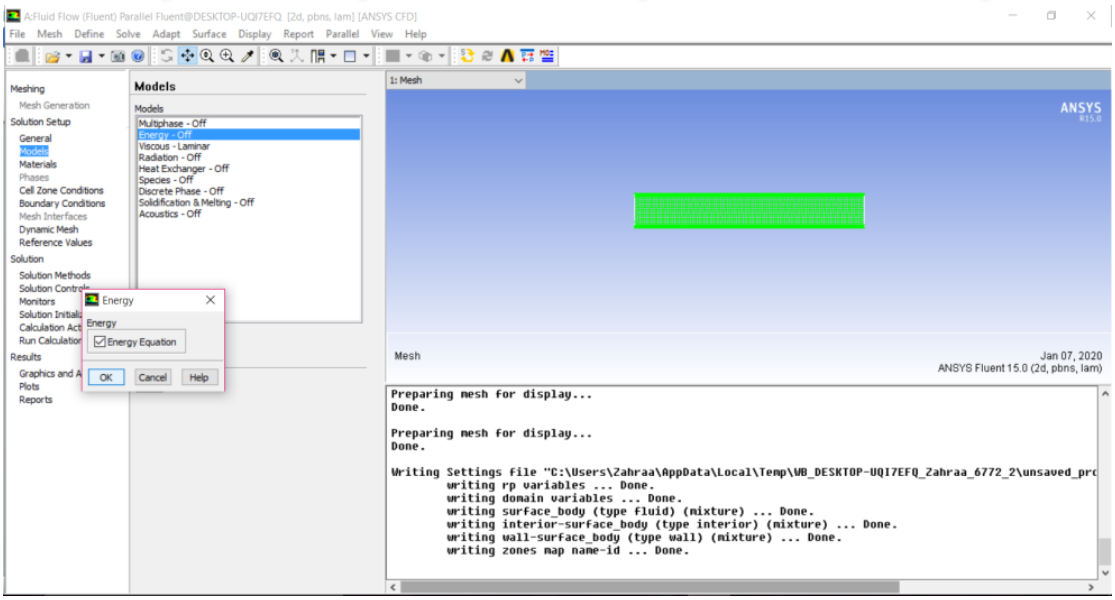


2- Setup → models → energy(off) → edit energy(on) → ok.



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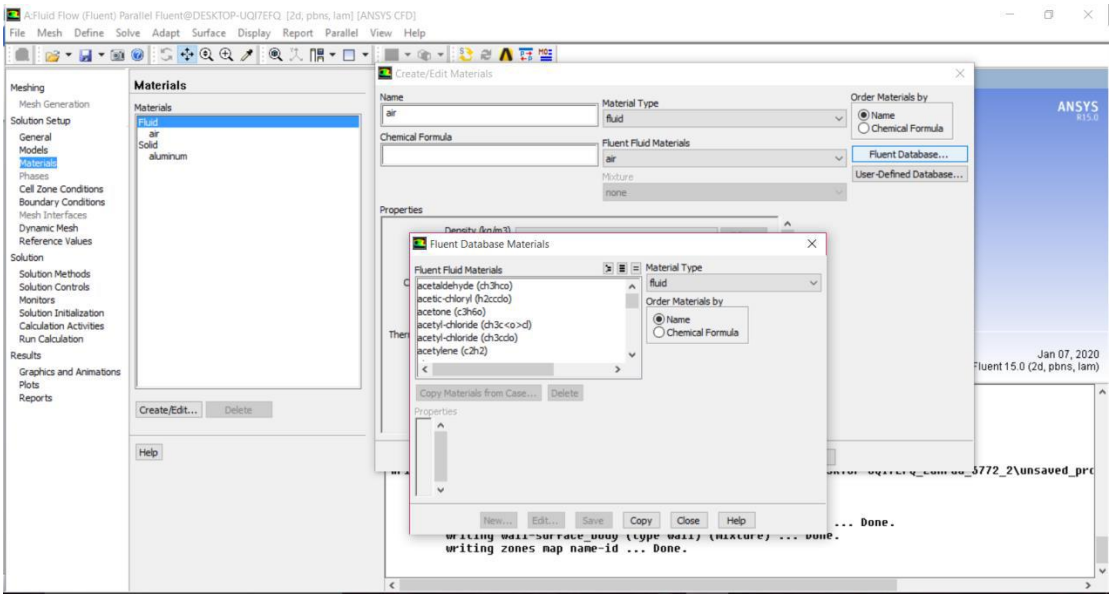
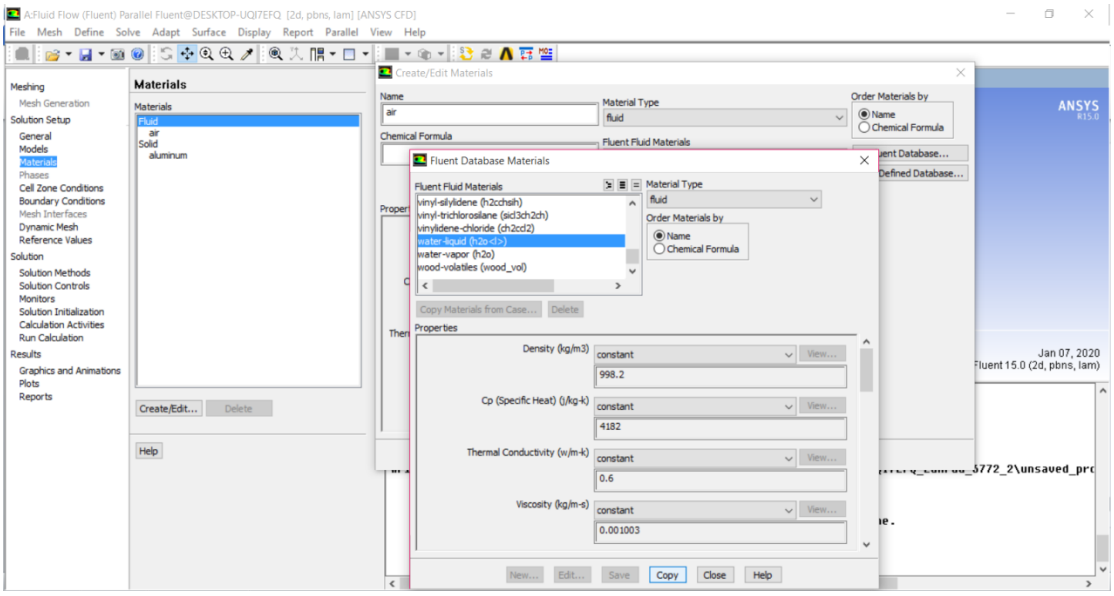
3- Setup → Materials → Create/Edit → Fluent Database → liquid (water) → Copy → Close → Close.





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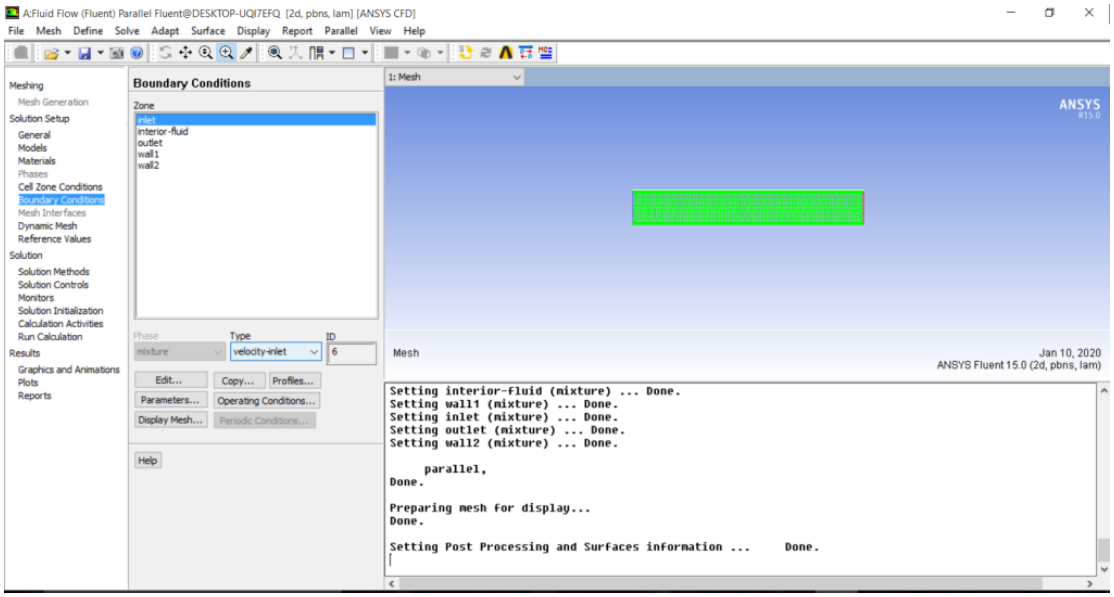
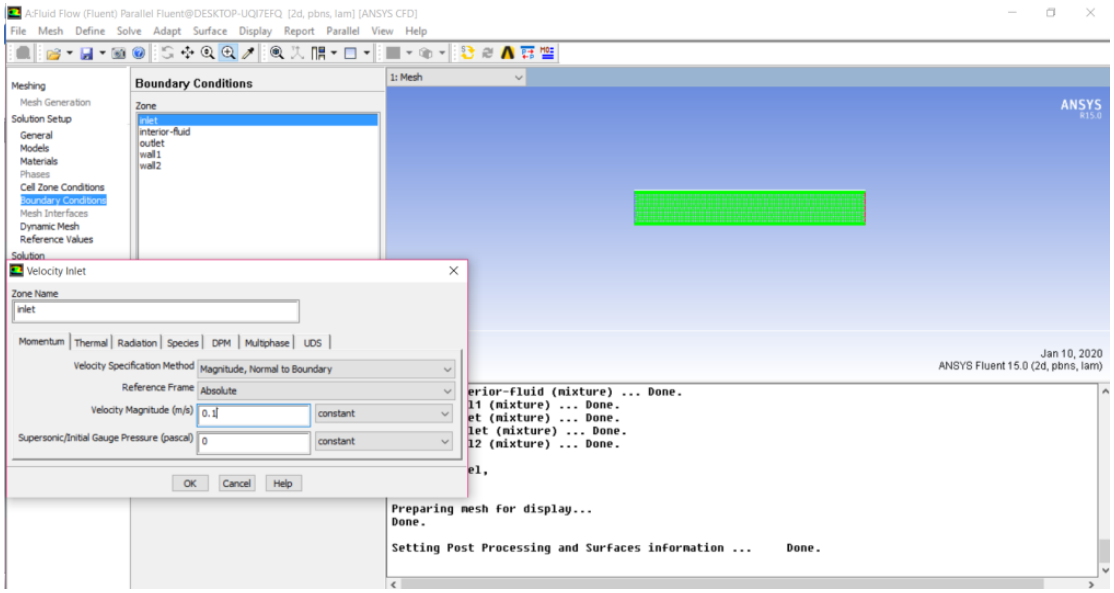
4- Setup ⟶ Boundary Condition ⟶ inlet ⟶ Velocity inlet ⟶ edit ⟶ Momentum (mount of velocity) ⟶ (Thermal (Temperature) Ok.





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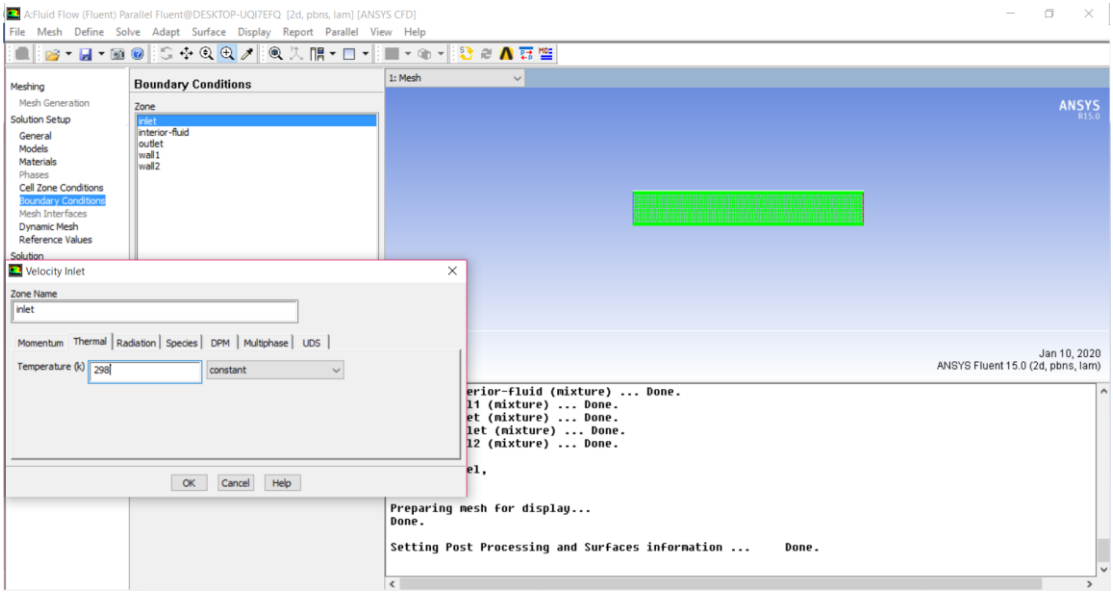
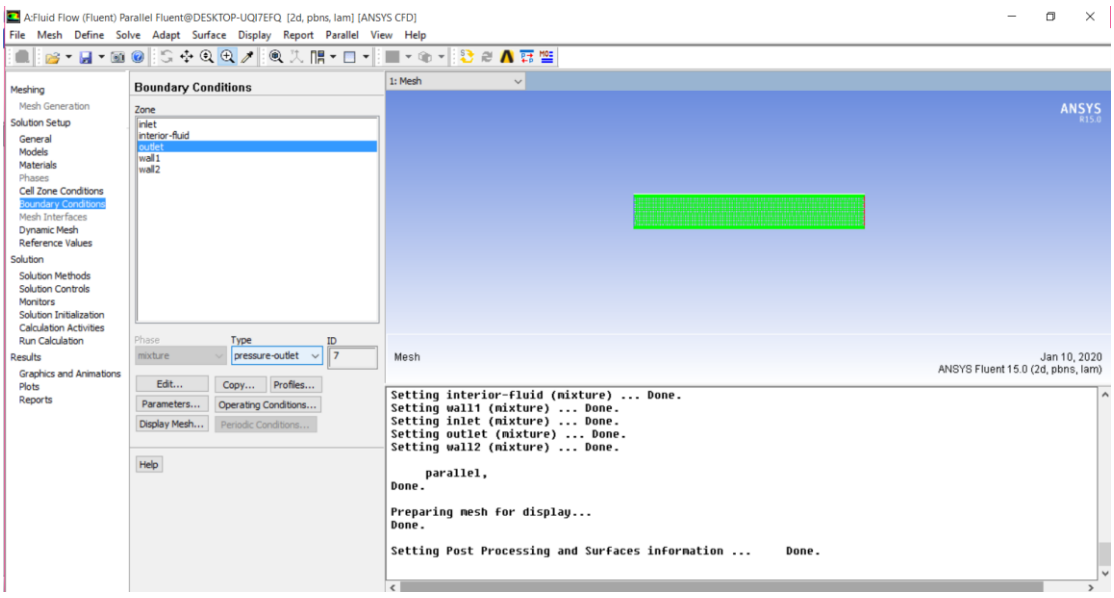


5- Setup ⟶ Boundary Condition ⟶ outlet ⟶ Pressure outlet ⟶ edit ⟶ Momentum (mount of pressure)⟶ (Thermal (Temperature) Ok.



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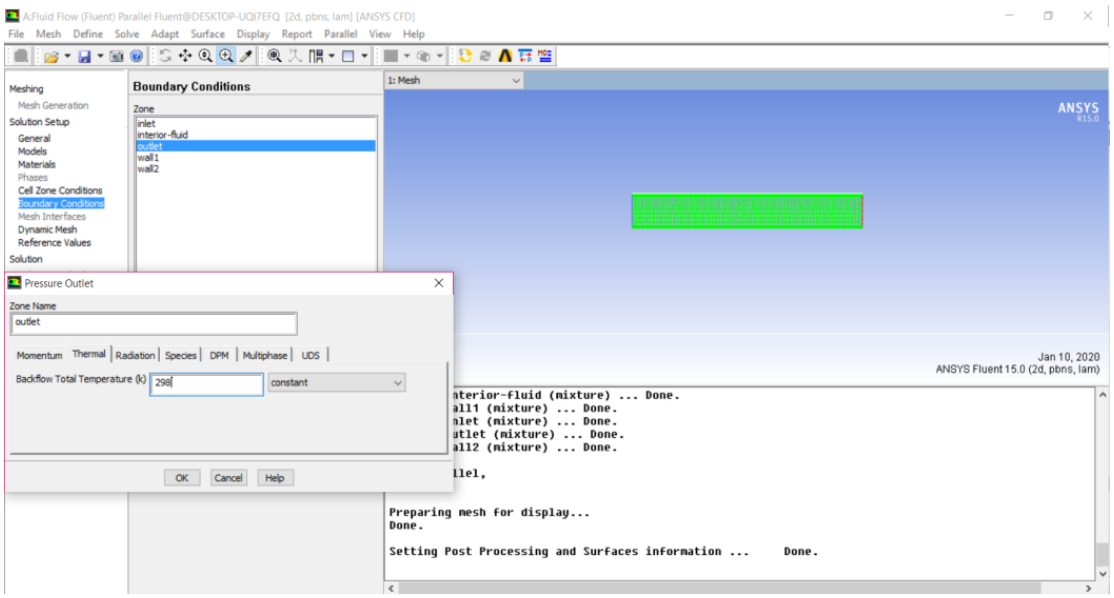
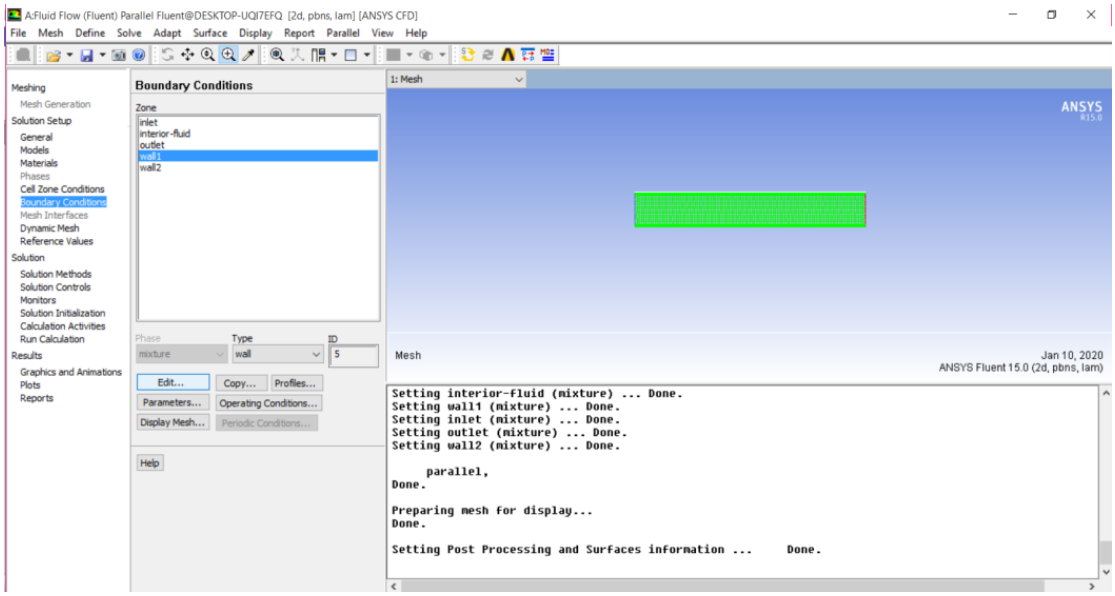


6- Setup ⟶ Boundary Condition ⟶ wall ⟶ heat flux (amount of heat) ⟶ Ok.



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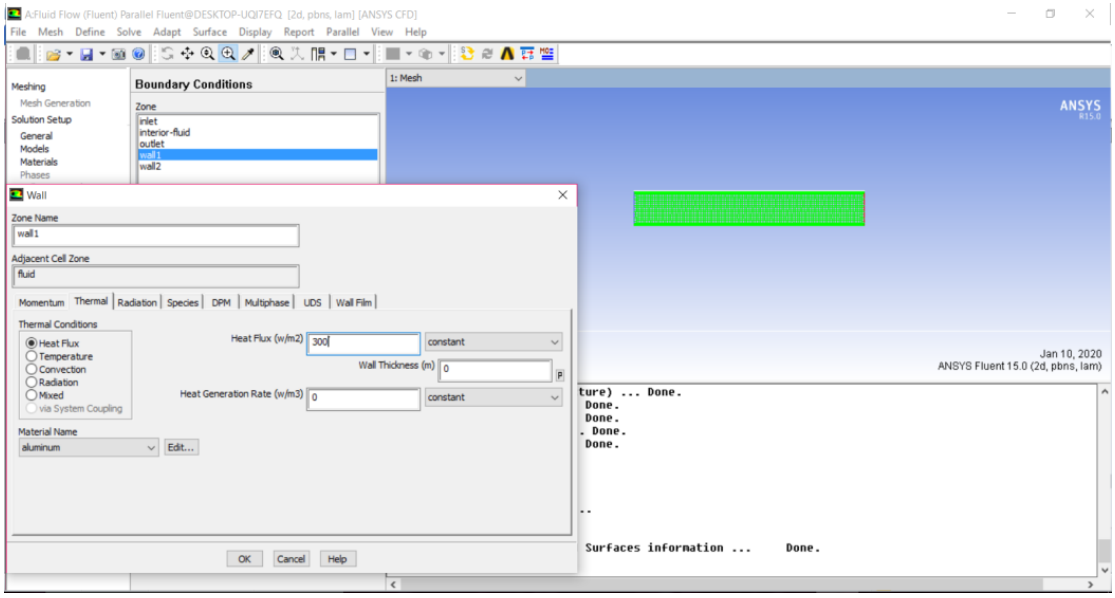
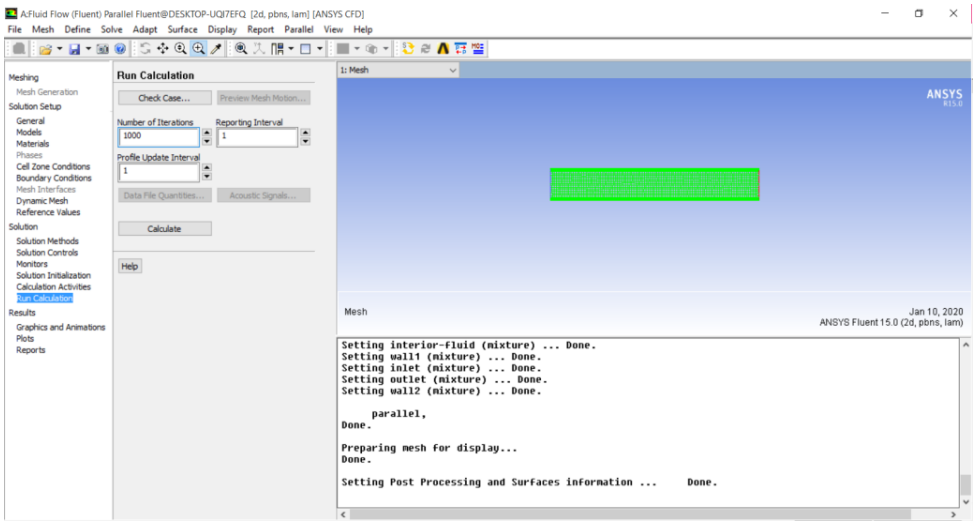


7- Setup → Run Calculation → Number of Iteration → Calculate.



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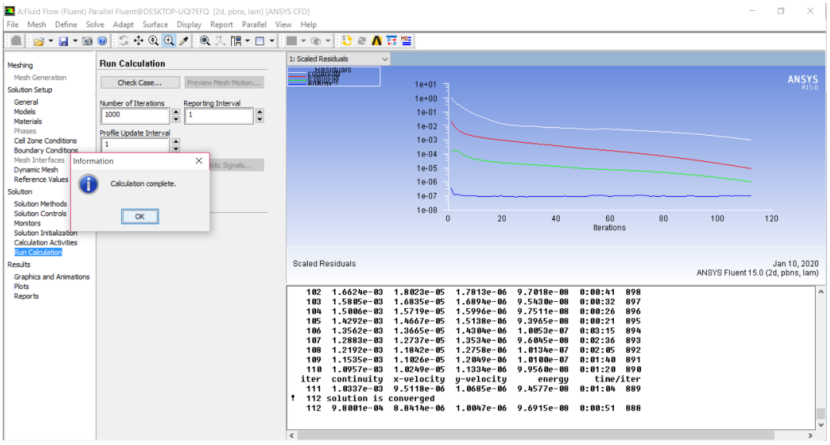
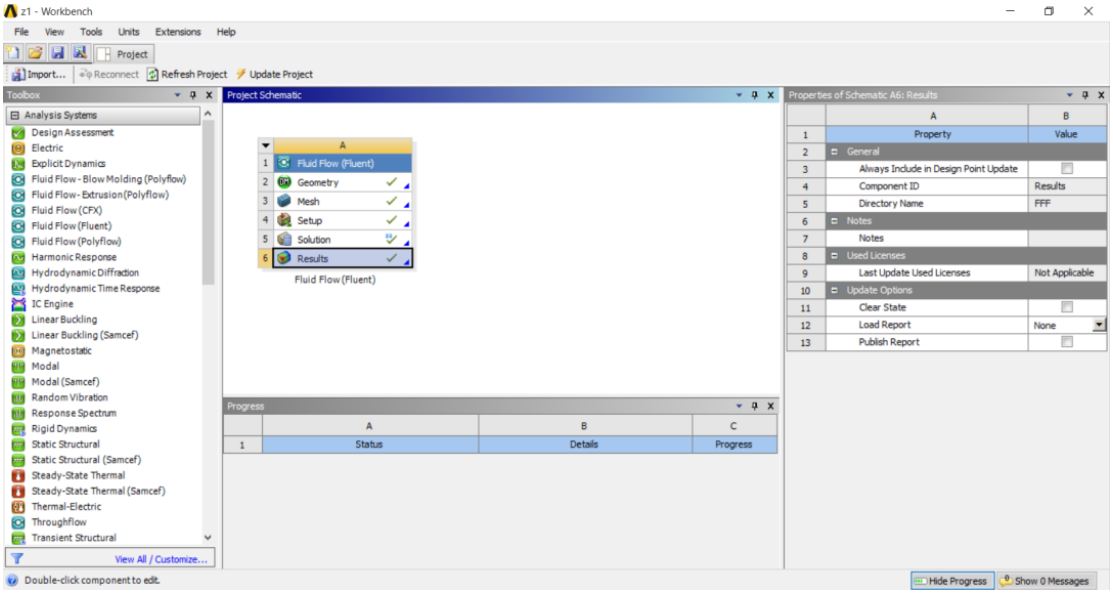


Results

8- Analysis systems ⟶ fluid flow (fluent) ⟶ Results



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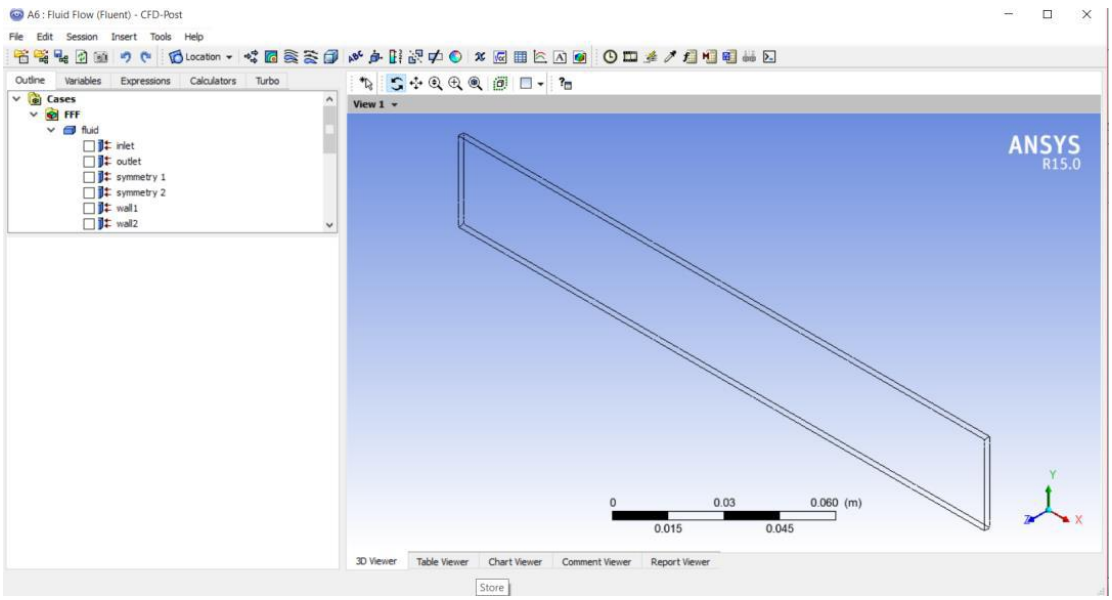

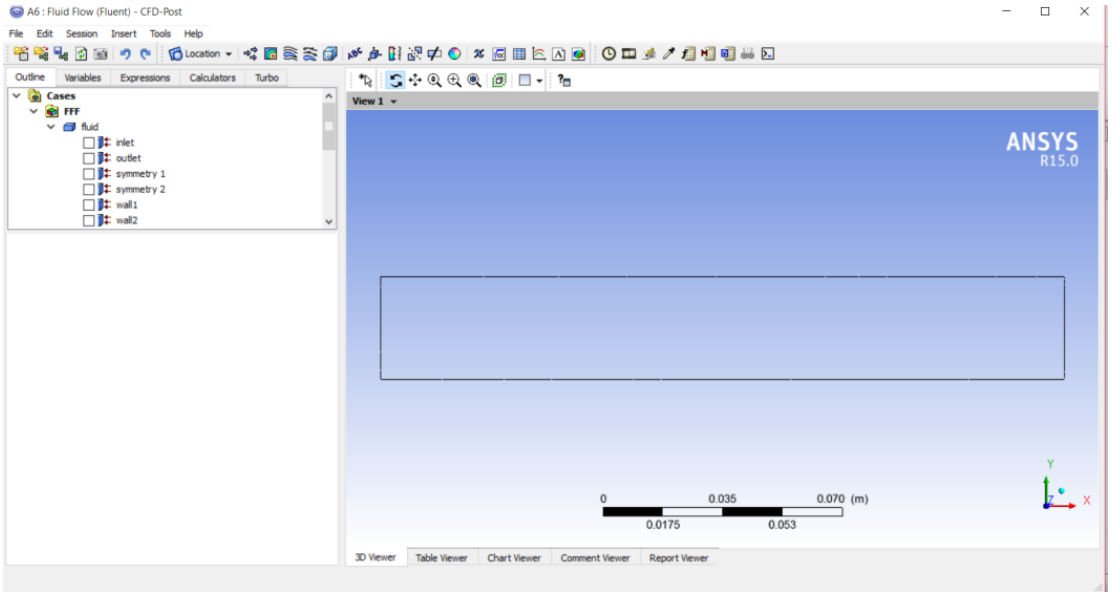

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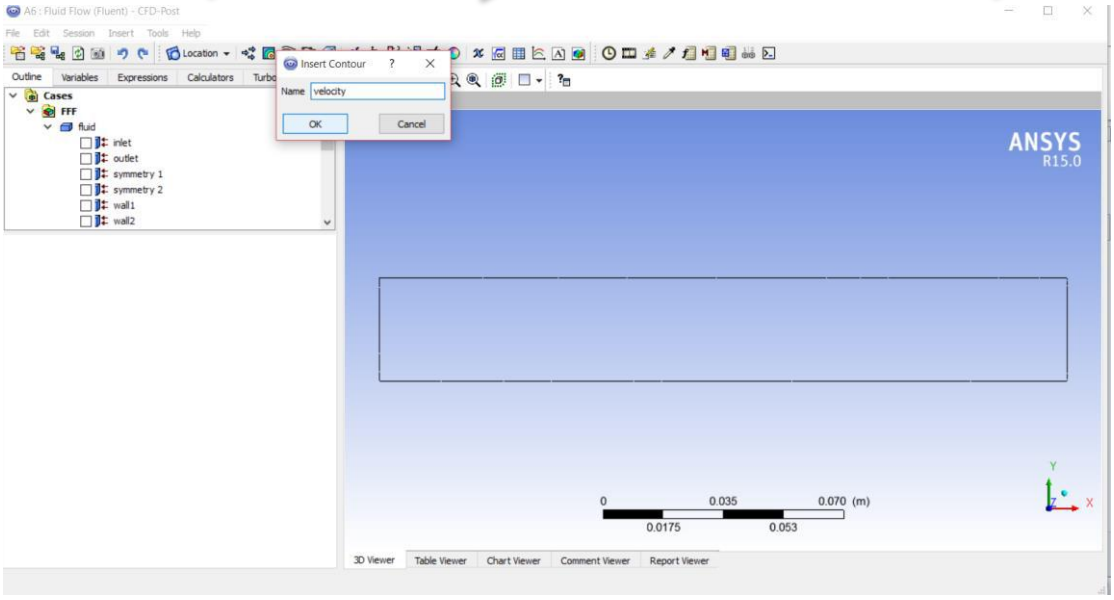
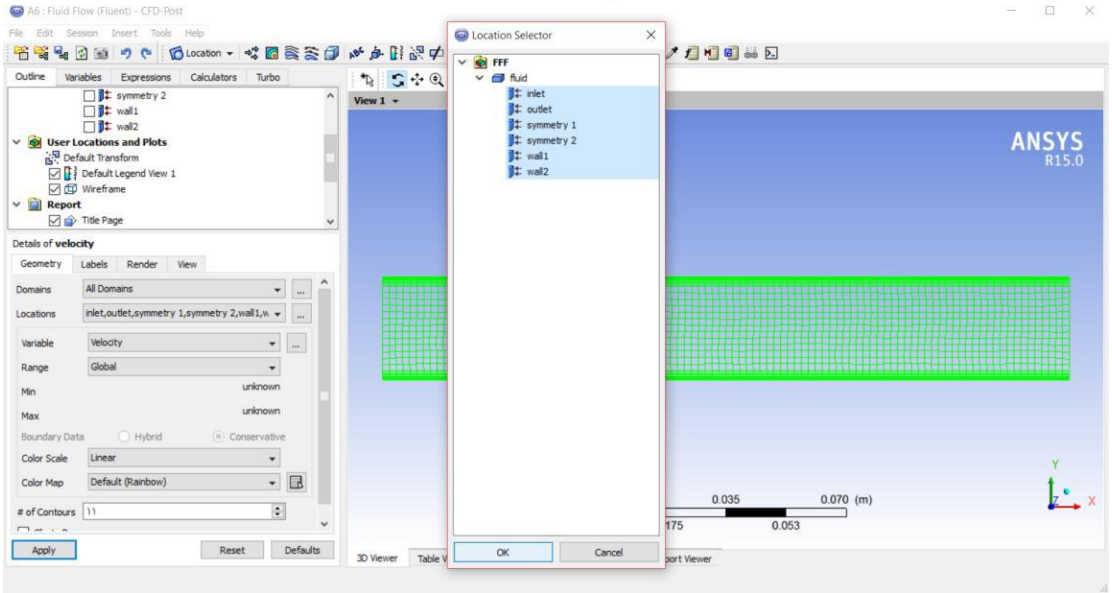
9- Results → Contour → create name (velocity) → ok



10- Location (select all) → ok → variable (select velocity) → apply



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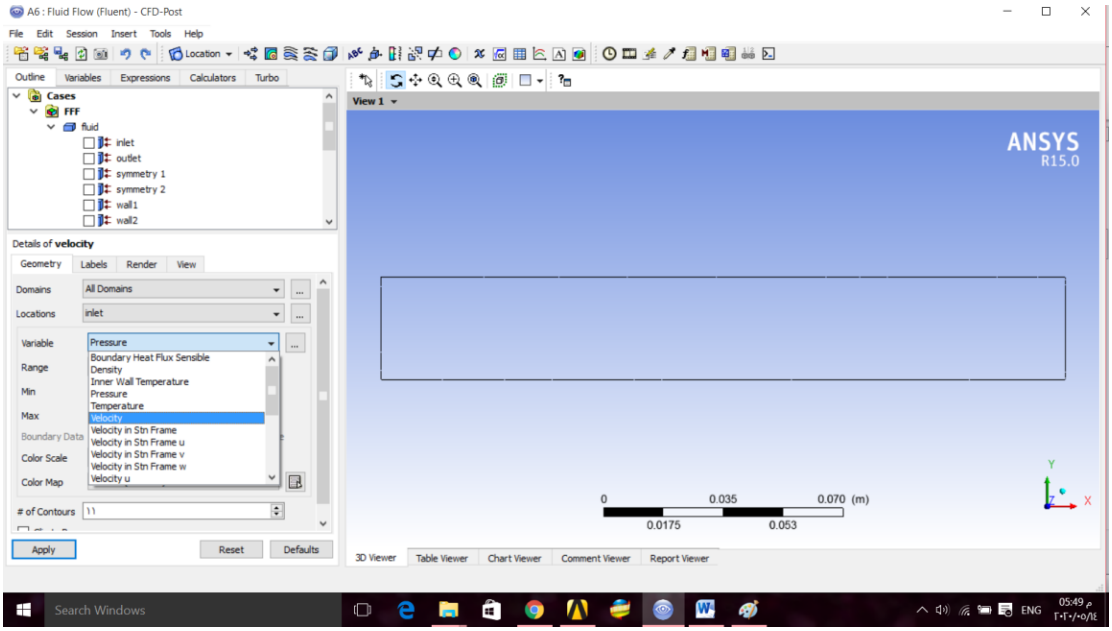

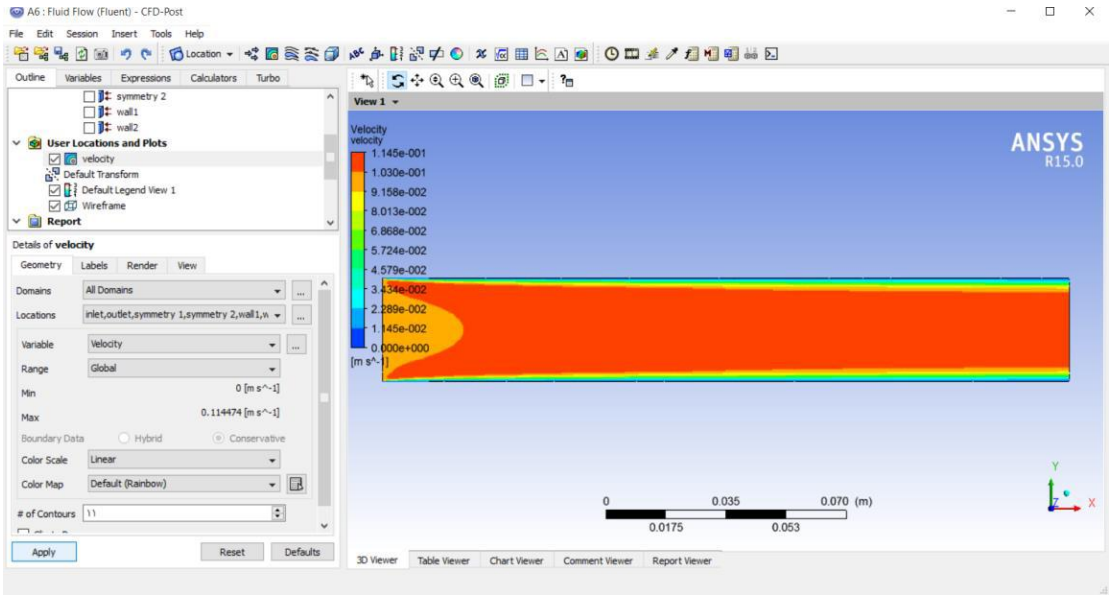

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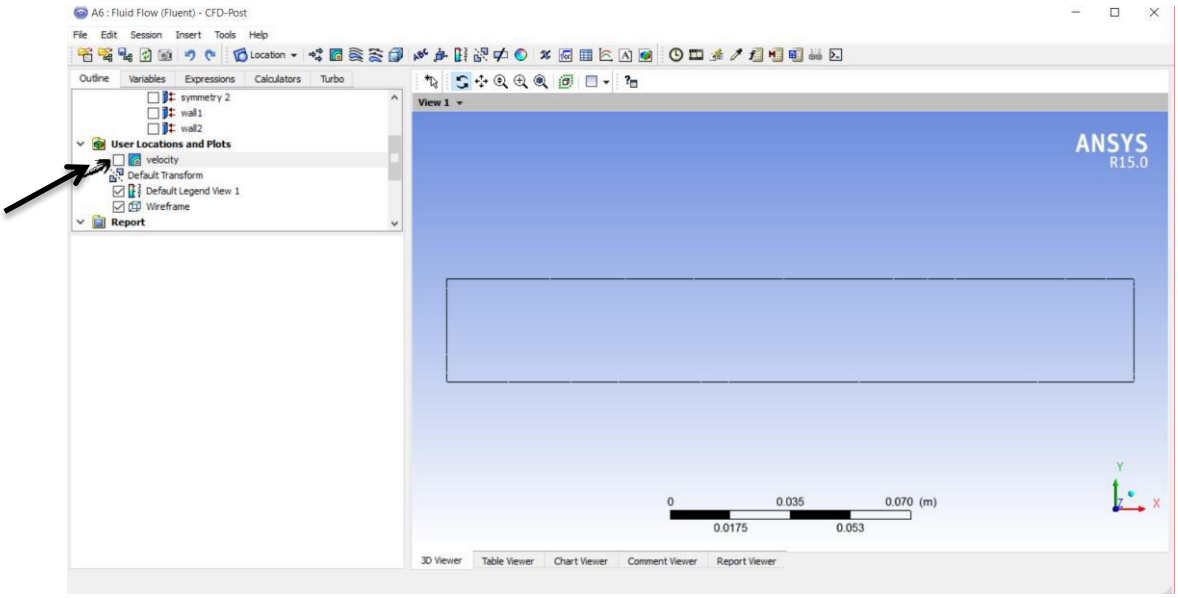
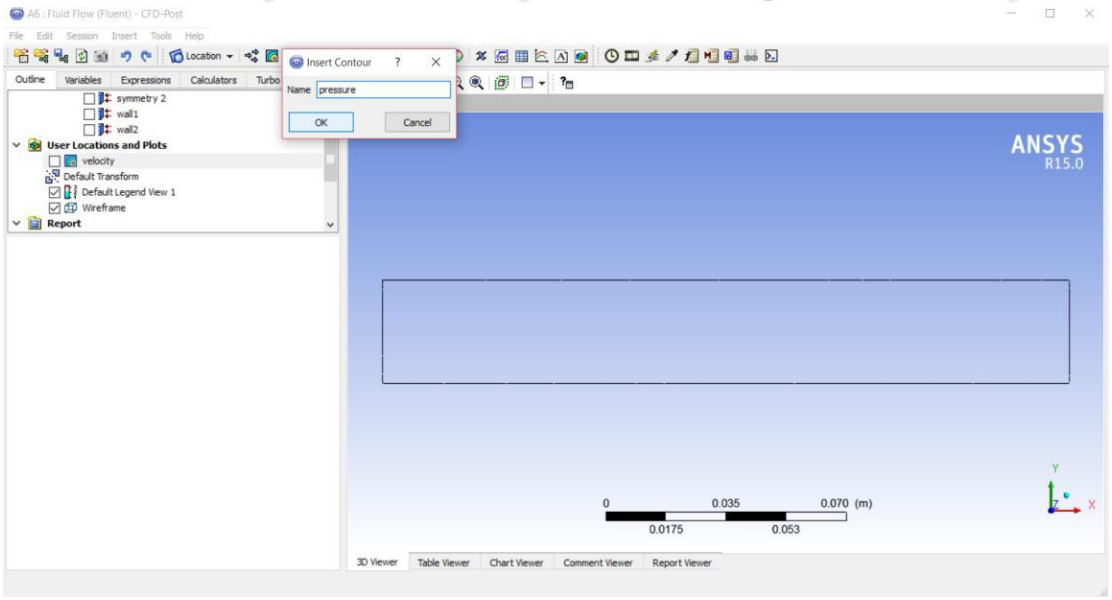
11- Remove mark of true from velocity



12- Results → Contour → create name (pressure) → ok



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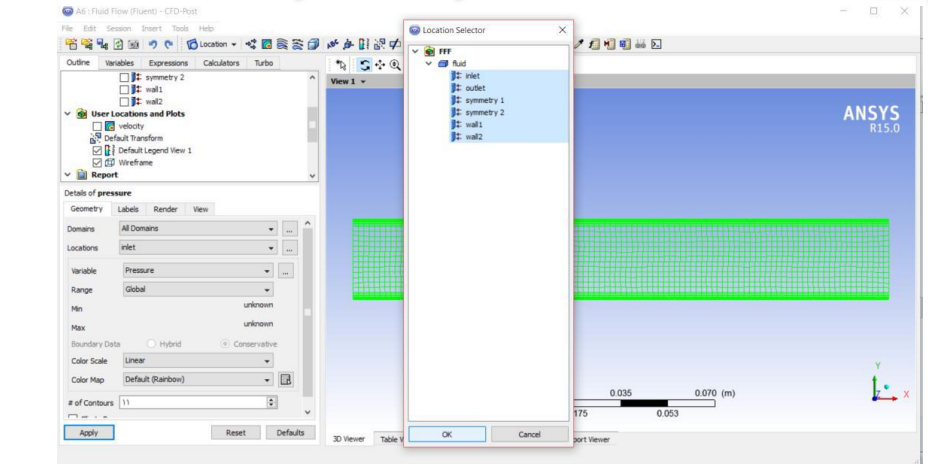
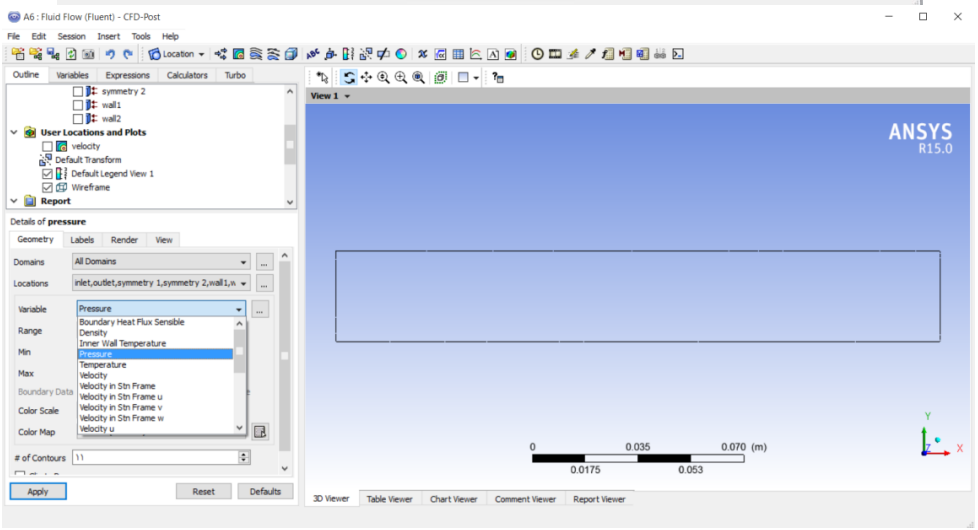
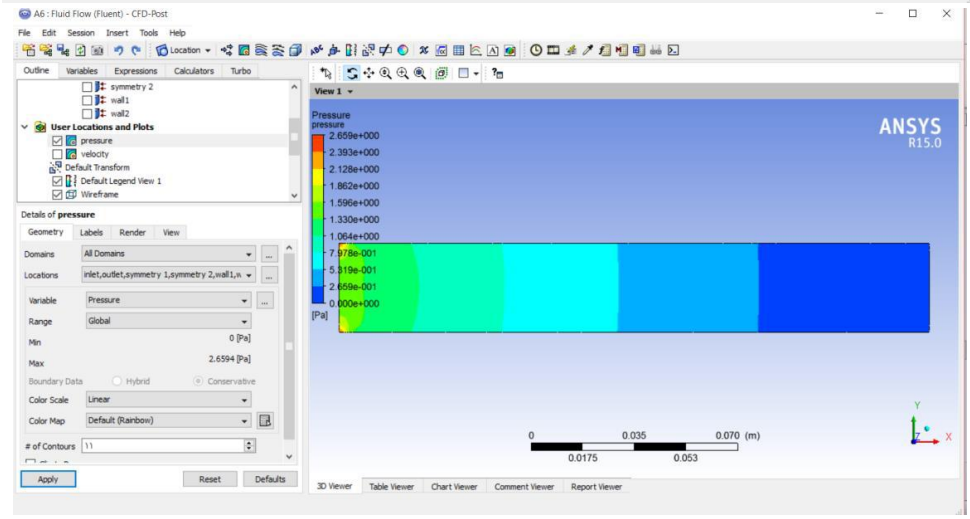
13- Location (select all) → ok → variable (select pressure) → apply







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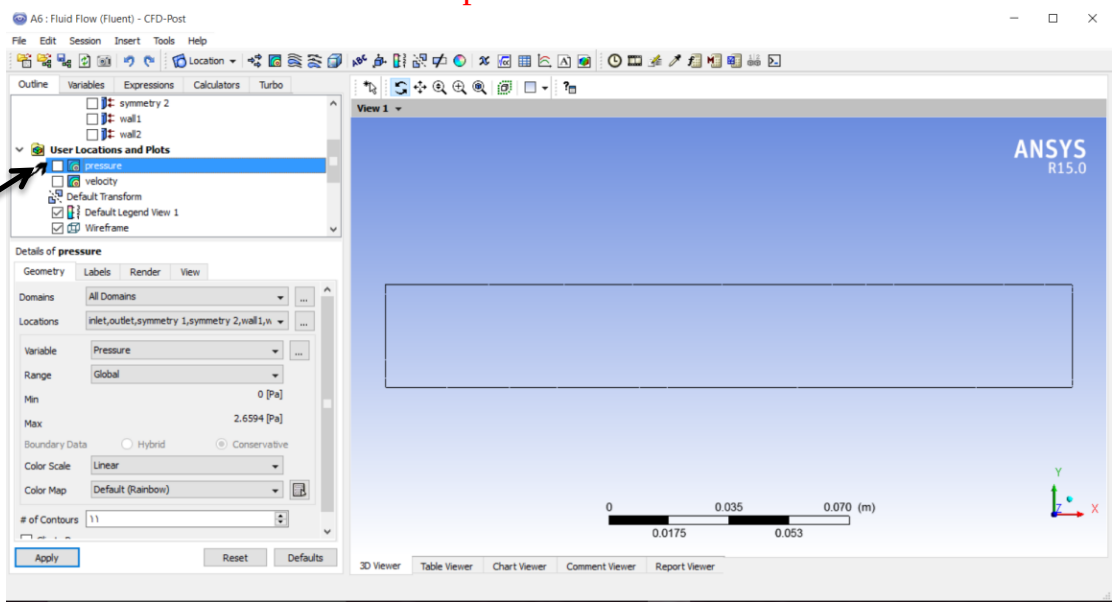
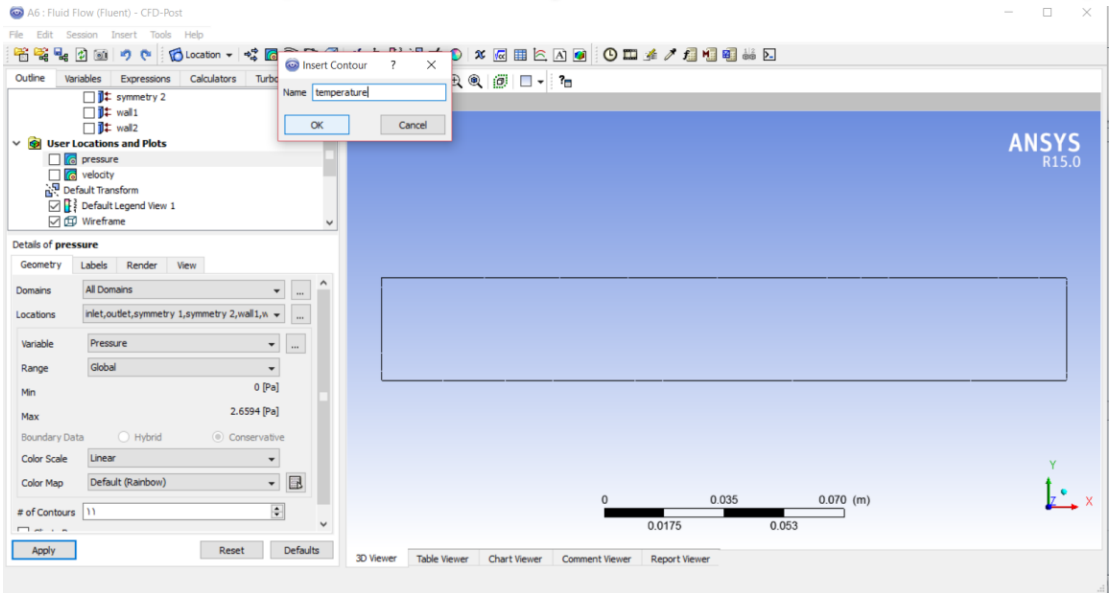
14- Remove mark of true from pressure



15- Results → Contour → create name (temperature) → ok



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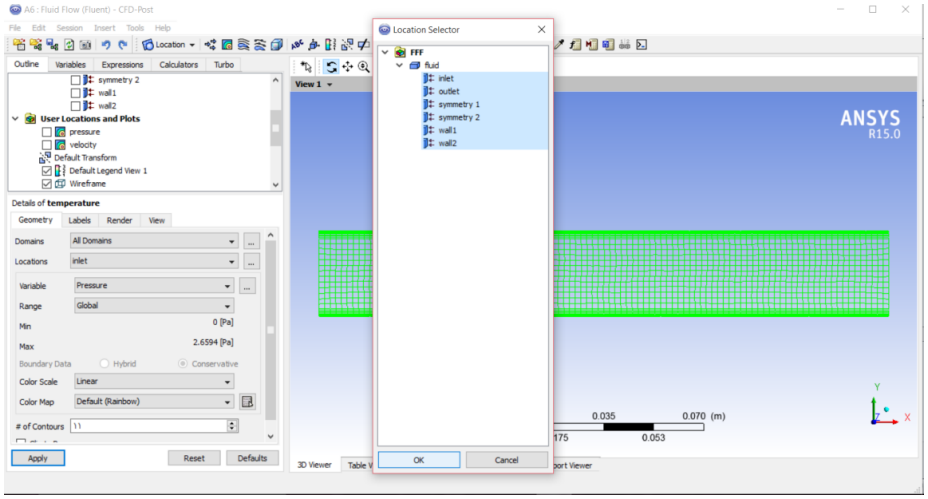
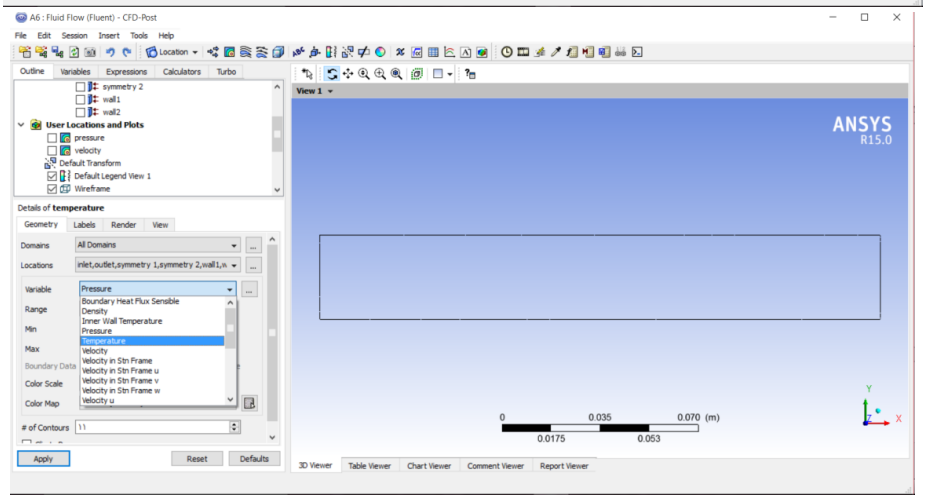
16- Locations (select all) → ok → variable (select temperature) → apply





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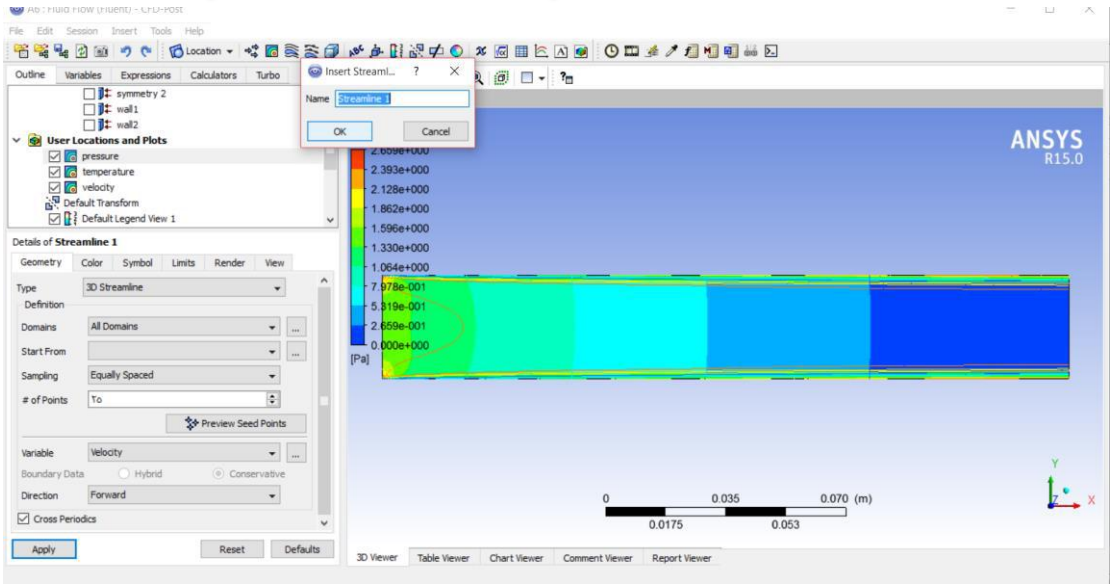
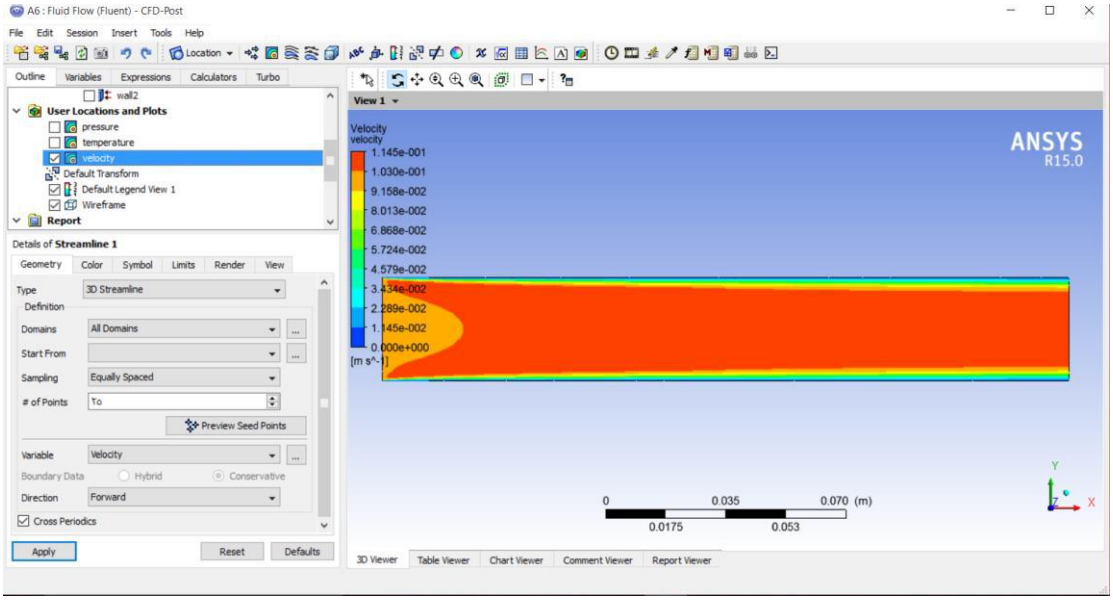
Stream line

17- Results ⟶ Streamline1 ⟶ OK



18- Remove all (✓) from Pressure and Temperature only.



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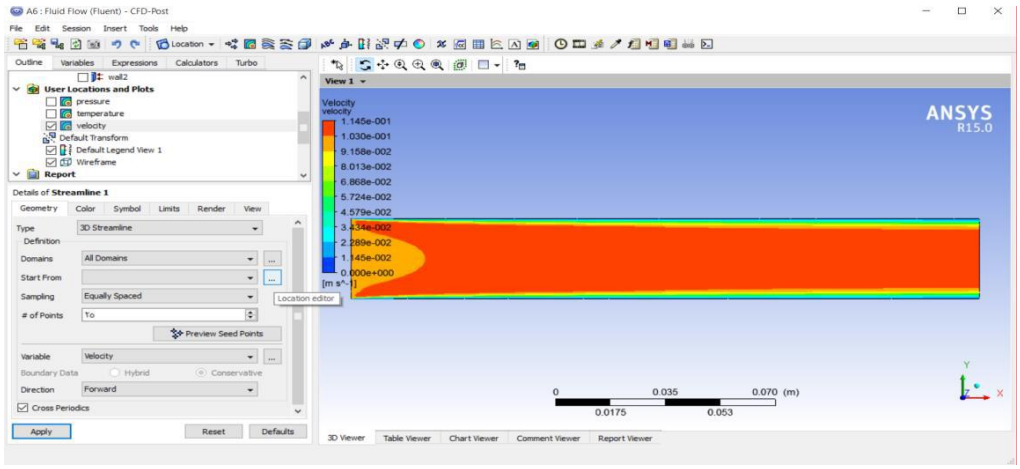
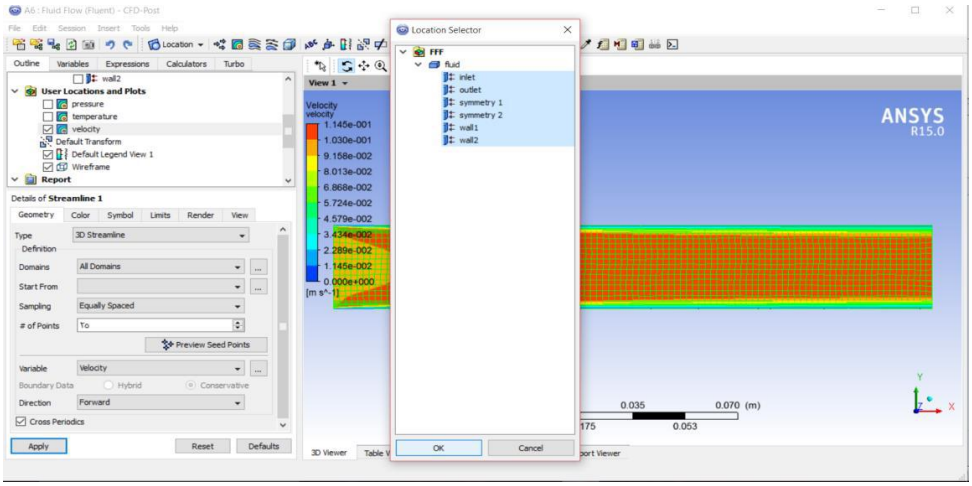
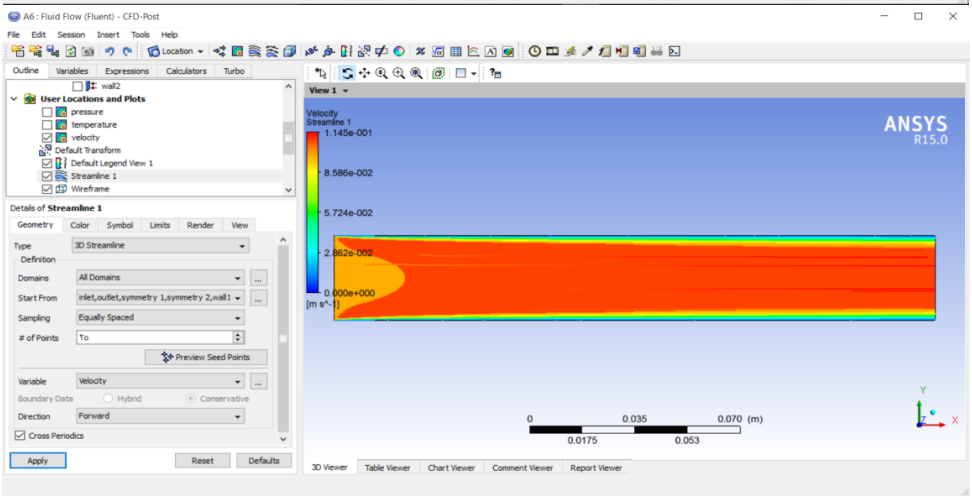
19- Start From (select all) → OK → apply







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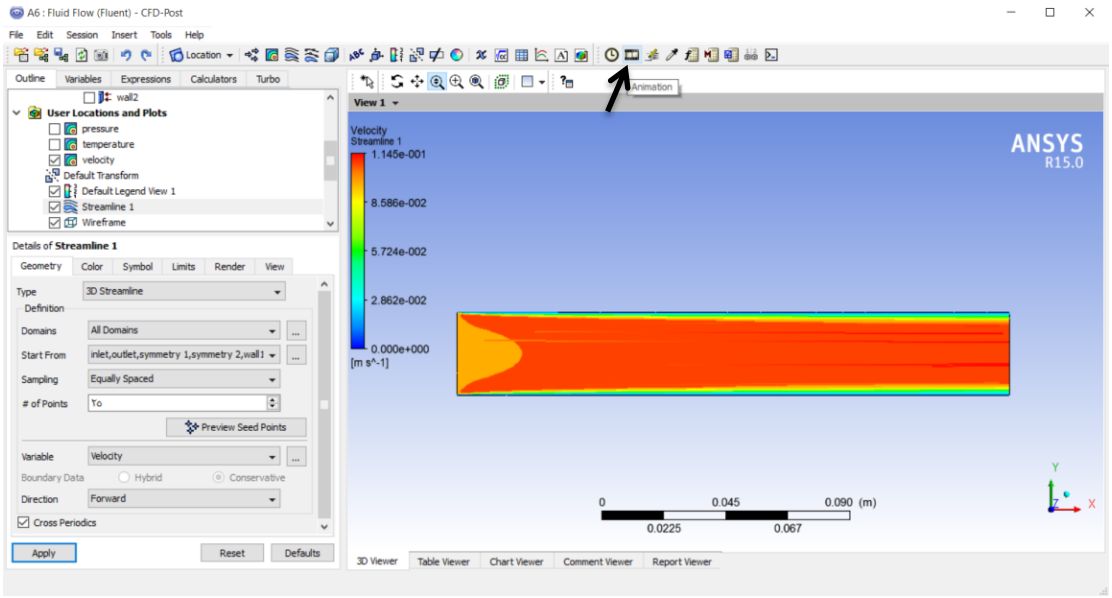
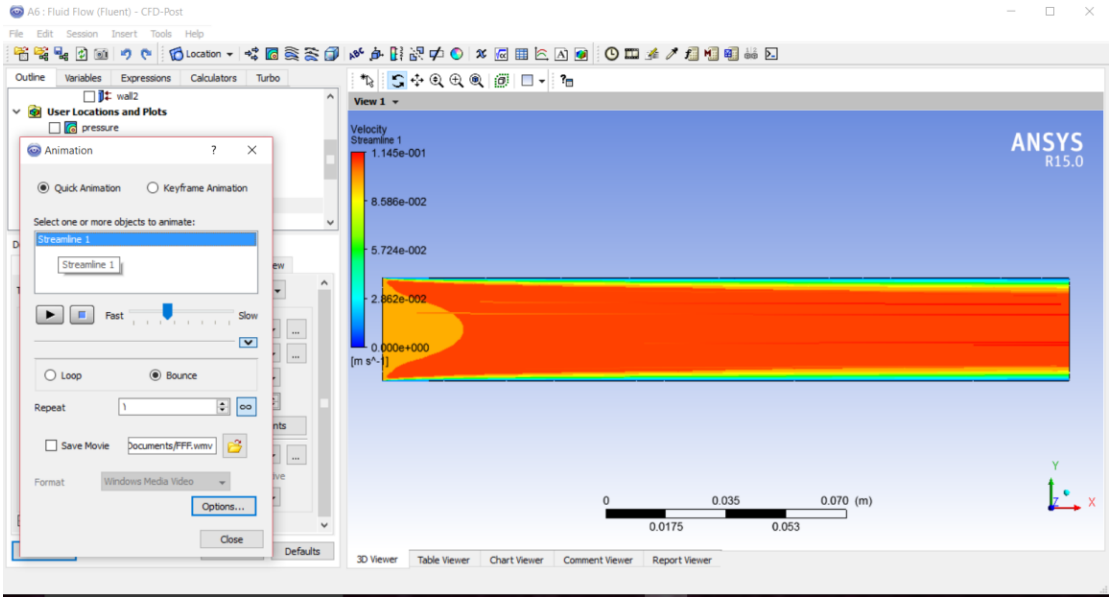
20- Make Video to appear changing in fluid velocity in pipe.



21- Select stramline1 ⟶ change video speed ⟶ play (to play video) ⟶ Stop to stop video)



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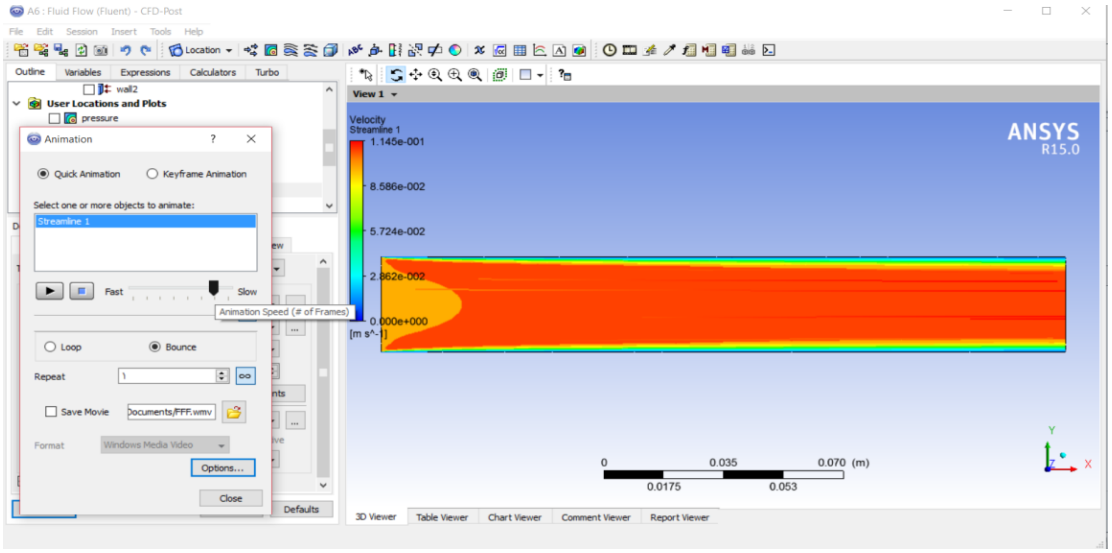

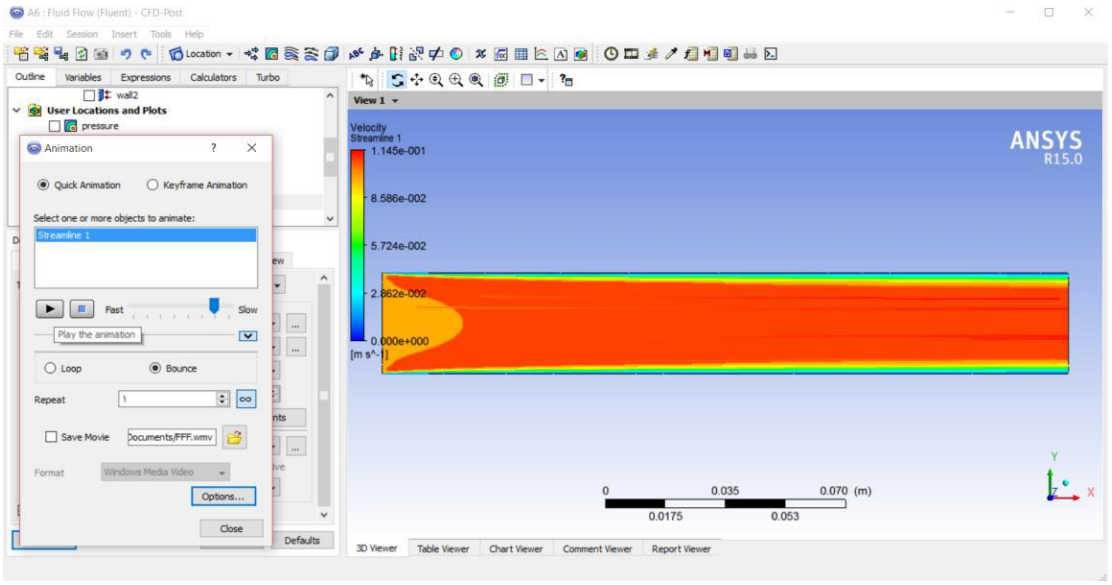

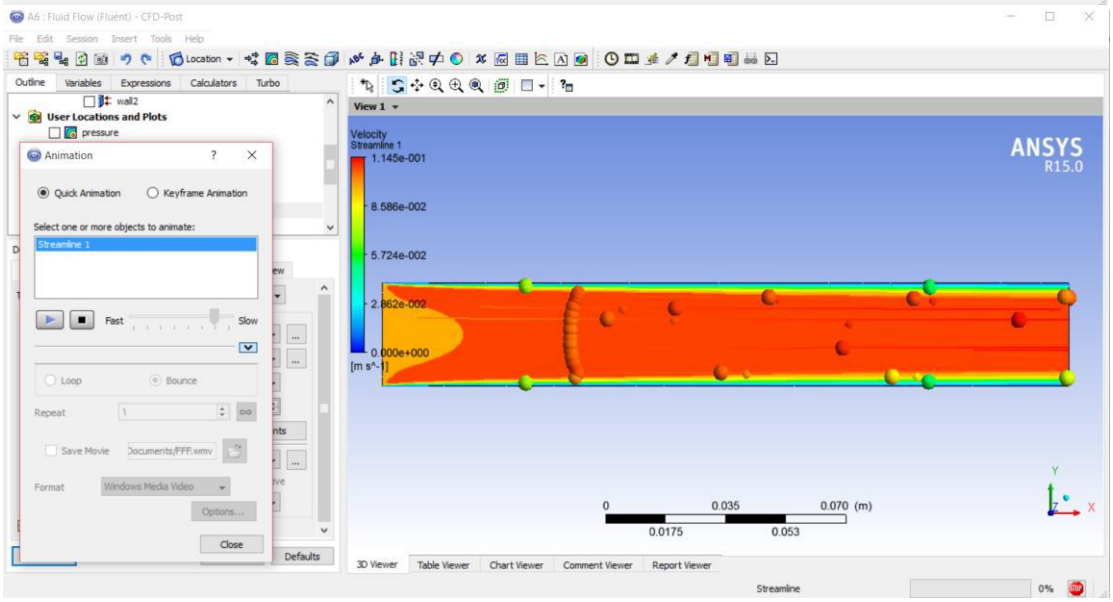

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