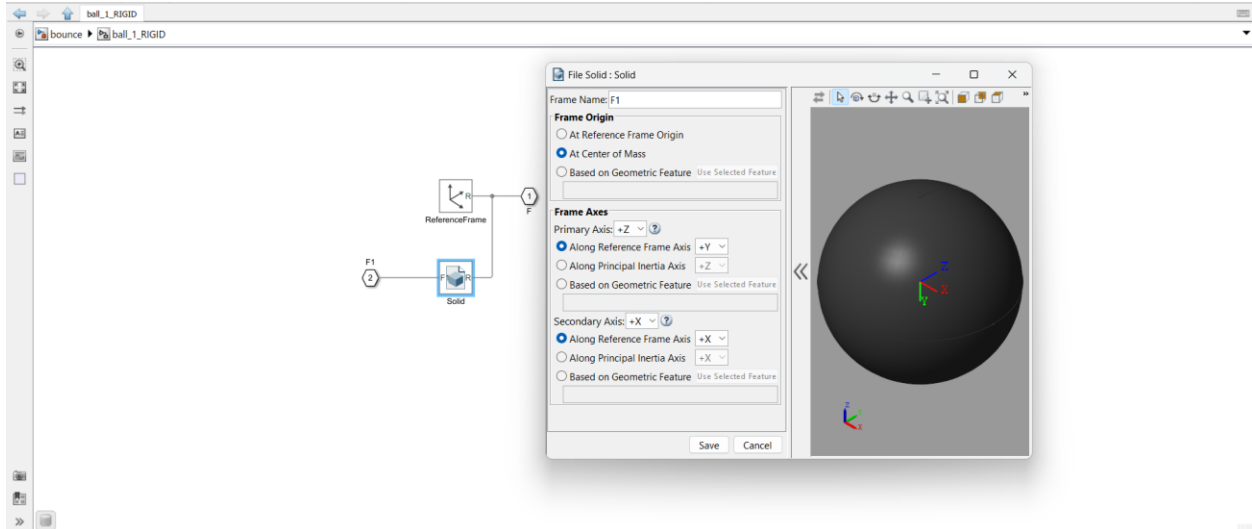
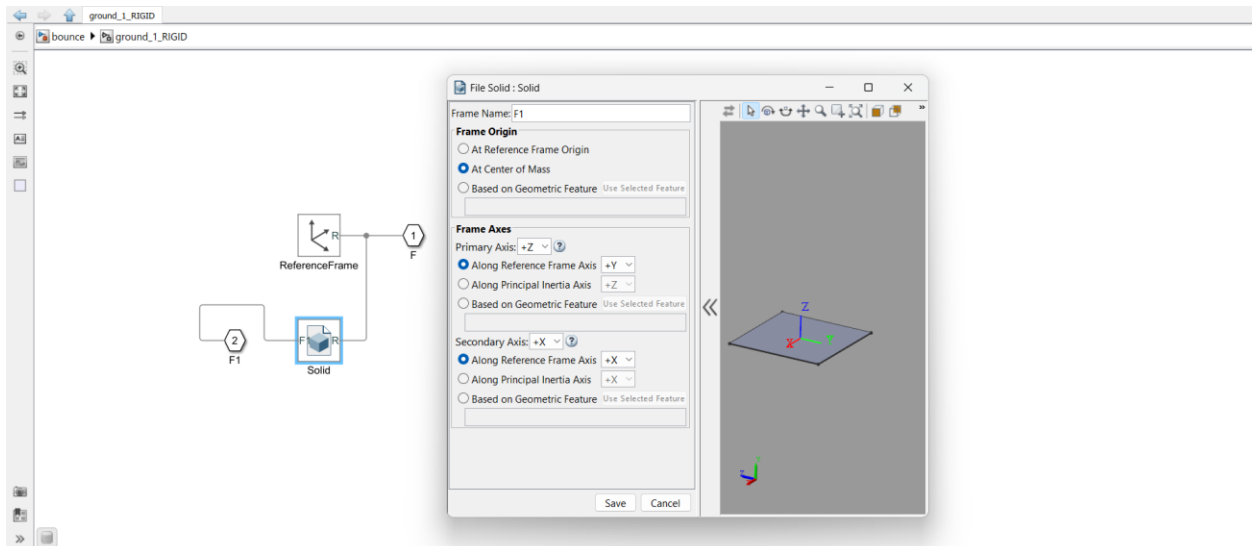


The URDF files are imported in Simulink using `smimport('filename.urdf')` in the command window in MATLAB.

In the model, open the solid model of the ball and add frames in the orientation as given below.

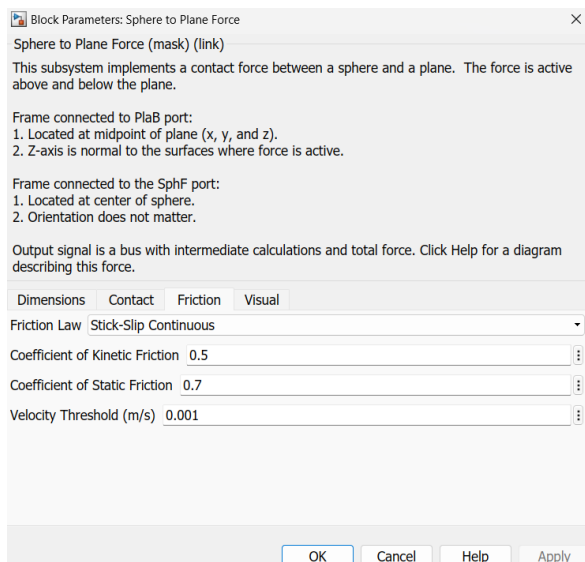
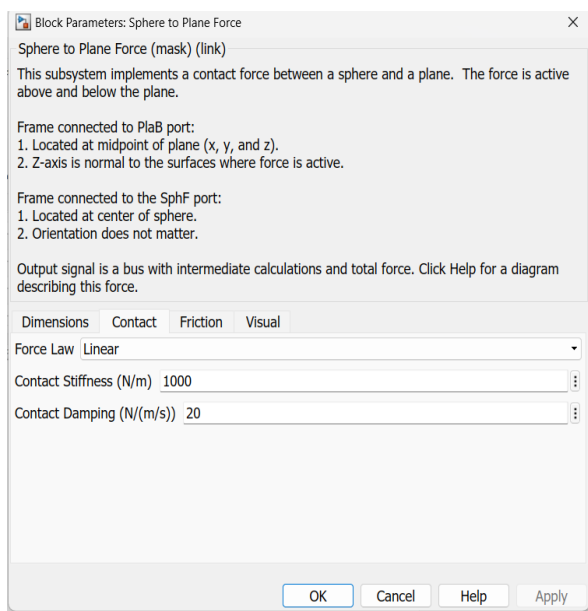
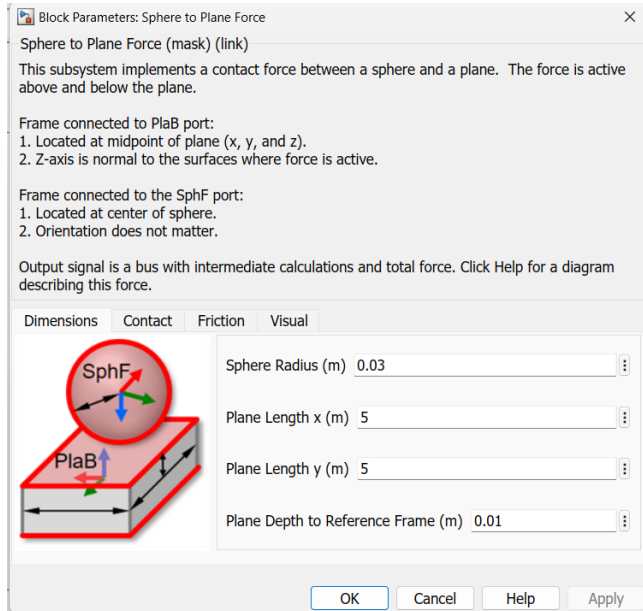


Similar we have to do with the ground, as shown below:

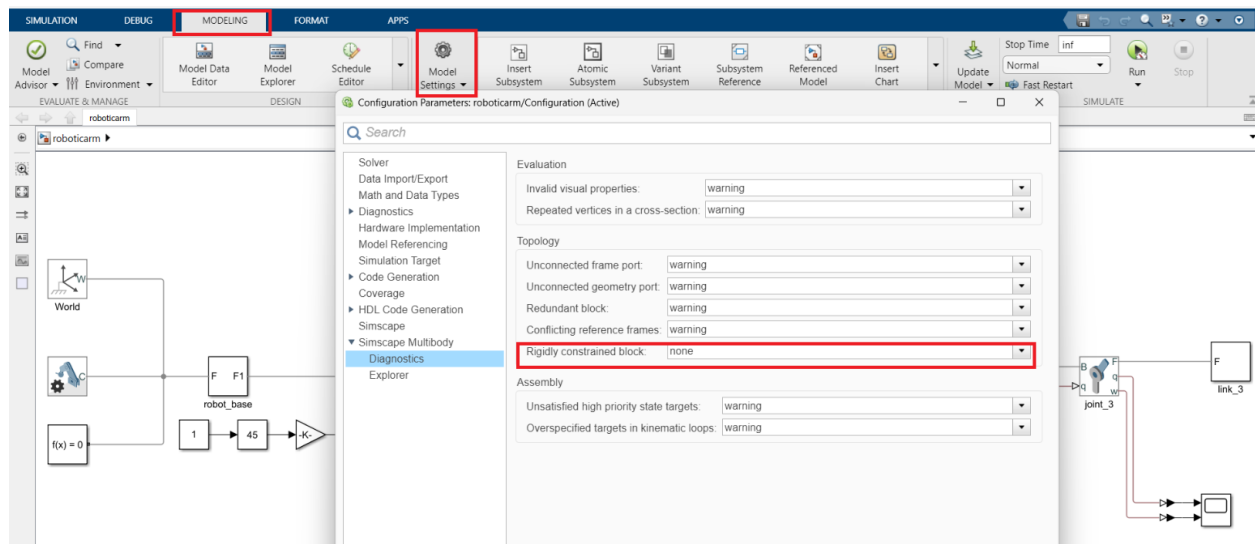


Now add Sphere to Plane force block to the Simulink model and note that the frames we have added are in accordance with that only.

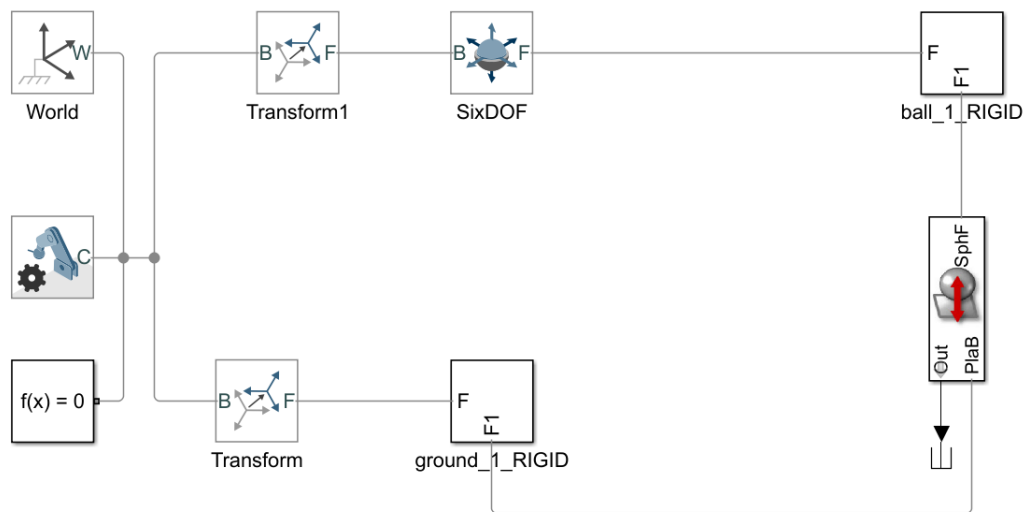
Set the parameters as given below:



Also, in Modeling---->Model Settings---->Diagnostics
Change the rigidly constrained block to none from error.



Now connect all the blocks as given below:



Now, Run the simulation in various conditions to see the results.