C. I.C. A.				
	ation: Unit 2 Module 8 ne Dynamic Controls – Part II	/ 50	Name: Date:	_
	er to set up each Scenario and ansv	· ·	omputer with "Prepar3D" and joystick. Wo	
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	brake set on. Set Flaps full down Mixture Rich Full Throttle Release Brakes Keep plane centered on runway Keep plane on runway until 65 km Slight back pressure on the joystic Climb at 500-1000 fpm, not more Raise Flaps after reaching 1000 fe Level off at 3000 feet Set RPM at 1800 Trim aircraft so not climbing or de Check for coordinated flight, look at plane, to center the "ball" if needed	ots ck (yoke) ! et escending when con the turn coordinate d. Meaning "step on eft or right which is t	ntrols are released or and see if the "ball" is centered, "yaw" the hall". In other words, if the "ball" slides the same as pushing on the left or right	
Scenari	o #4:			
1.	Make sure the airplane is trimmed w pull back on the yoke or stick to set a		or down when controls are let go) and angle of approximately 10ºnose up	
2.	After pitching up, maintain the nose	up attitude only with	n joystick or yoke, do not use throttle.	
3.	Wait 10 seconds, observing what hap	pens to the airplane	e. Write what you observe.	
4.	WHY is the airplane climbing?			

5.	Why is the airspeed decreasing?	
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5.	Why does the airplane eventually stop climbing?	
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7.	Return the airplane to straight and level flight at 3000 feet.	
ario	o #5:	
l.	Make sure the airplane is trimmed well (not pitching up or down when contropush forward on the stick to set and maintain a pitch angle of approximately throttle.	
2.	After pitching down, maintain the nose down attitude using joystick inputs	
3.	Wait 10 seconds, observing what happens to the airplane. Write what you ob	oserve.
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1.	WHY is the airplane descending?	
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	5. 7. 1.	5. Why does the airplane eventually stop climbing? 7. Return the airplane to straight and level flight at 3000 feet. ario #5: 1. Make sure the airplane is trimmed well (not pitching up or down when contropush forward on the stick to set and maintain a pitch angle of approximately throttle. 2. After pitching down, maintain the nose down attitude using joystick inputs 3. Wait 10 seconds, observing what happens to the airplane. Write what you observed.

Return the airplane to straight and level flight at 3000 feet.	
rio #6:	
This time, slow the airplane down to 70 KIAS (knots indicated airspeed) using trim pitch so you maintain straight and level flight.	power reduction and nose
Now simulate a lost engine by powering back the throttle to idle.	
Wait 10 seconds, observing what happens to the airplane. Write what you ol	oserve.
WHY is the airplane descending?	
If you try to maintain altitude with a lost engine, what will happen to airspeed	1?
	This time, slow the airplane down to 70 KIAS (knots indicated airspeed) using trim pitch so you maintain straight and level flight. Now simulate a lost engine by powering back the throttle to idle. Wait 10 seconds, observing what happens to the airplane. Write what you observed.

6.	place to land your airplane without hitting any obstacles?
7.	Return the airplane to straight and level flight at 3000 feet.
Scena	rio #7:
1.	Again, slow the airplane down to 70 KIAS using power reduction and nose trim pitch so you maintain straight and level flight.
2.	Instead of losing an engine, we will try to change our altitude with only the throttle.
3.	Slowly increase airspeed with throttle so the airspeed reaches 100 KIAS then leave the throttle in this position.
4.	Wait 10 seconds, observing what happens to the airplane. Write what you observe.
5.	WHY is the airplane ascending? Be specific.
6.	Now reduce airspeed back to 70 KIAS, maintain pitch of the aircraft. Wait 10 seconds, observing what happens to the airplane, write what you observe?

7.	why is the airplane descending? Be Specific	
8.	Return the rpm's to 1800 and return the airplane to straight and level flight at 300	0 fee
Scenar	rio #8:	
1.	Once established at straight and level flight, set RPM to 1800	
2.	Fully "yaw" the plane either left or right with the rudder, (joystick or foot petals) .	
3.	Wait 10 seconds, observing what happens to the airplane. Write what you observe	e.
4.	WHY is the airplane behaving this way? Be specific.	
5.	Did the airplane begin to roll after a few seconds? Why.	

6. Return the airplane to straight and level flight at 3000 feet.