Student's NetID	Student's Name, 3 digits: e.g. JET861 Please write clearly; mal	ke it easy to read)	_Grader's Nam	
	51-1 Grading She	-	Project	C Spr 2021 J. Tumblin 05/16/2022
10% In-Class Into	eractive Demo. Demonstrates multip	ole items listed on	this page.	
	DF report: All file-naming correct + , + correct sketch of your program's <mark>s</mark> c			
	rams features and options, without an			
to all distant horizons, and t	e Grid: Project shows horizontal 'floothus let us easily assess changes to can tem where +z is 'up', the ground plane	nera position and	aiming direction.	
	parate, Jointed, Continually Flexing rent ground-plane locations, with cont			
	r-spinning Sphere at world-space origin trom any desired 3D location. Rota			
filled with an undistorted in	ort Display fills top 66% of browser nage from a perspective camera with 3 ht or fixed-width border & a region to	30-degree vertical	field-of-view; no	shape distortions, no blank areas
any direction without change	ustable 3D View Control: User integring position: be able to move forward lass cylinder' method; mouse or arrow	l/backward in the	gaze direction, ar	nd 'strafe' sideways left/right from
	oviously different-looking Phong Ma cified RGB values for ambient, diffuse HINT: use materials paramete	e, specular and en	nissive terms.	_
switch light on/off, and set	user-adjustable, non-directional 3D separate R,G,B values for each of the hange when camera moves. (note that	ambient, diffuse,	and specular ligh	t amounts. Surface illumination
	witching between all available lighting the program or its on-screen displa		hods (requires at	least two to earn this credit)
each of these, they can also crudely-shaped highlights:	ng/shading methods: Users can interselect between Phong lighting and Bl Phong shading yields rounded highlighty different specular highlights. (HINT	inn-Phong lightin	g; more methods naller than triangle	welcome. Gouraud shading gives es. Blinn-Phong lighting and
EXTRA CREDIT:				
2% extra credit: 3	eer-switched materials for ≥ one 3D p or more user-selected distance depend lude choice between NONE, 1/dist, an second, 'headlight' light-source, co-le crect, the specular highlights stay in the cometric shape distortions in shaders, a soidal waviness etc. will qualify, but mple Texture Maps on surface of one	dencies (ATT) for and 1/dist ² , with dis- ocated at camera on the middle of any solutions not reproducible to simple scaling or	your light source st calc'd at each very eyepoint, that use hiny sphere as car by matrix transfordisplacement of st	rertex; must work correctly) rs can switch on/off mera moves) rms in Vertex Shader (e.g. twist selected vertices will not suffice)
TOTAL	POINTS/100 (30% of fin	nal grade)		