## CS 372 **Programming Assignment #1** (2 programs) Due before midnight, Sunday, end of Week 5

Student Name:	
Grader Name:	

		Possible	Points	Comments
Documentation (6 pts)				
	Header blocks with name, program descriptions, etc	2		
	Function descriptions, comment outline	4		
Verification (30 pts)				
	chatserve starts with the command line	4		
	./chatserve <port#></port#>			
	and waits on <port#> for a client request</port#>			
	chatclient starts with the command line	3		
	./chatclient <server-hostname> <port#></port#></server-hostname>			
	chatserve and chatclient establish a connection	2		
	chatclient gets user "handle", displays as chatclient prompt, sends to	4		
	chatserve with each message			
	chatclient sends initial messsage to chatserve	3		
	chatserve accepts and displays chatclient's message	3		
	chatserve and chatclient alternate sending/receiving messages	6		
	Either host may close the connection, <i>chatserve</i> keeps running,	3		
	chatclient terminates			
	chatserve repeats until terminated by a supervisor	2		
Requirements (10 pts)				
	Files submitted correctly	2		
	Well-modularized:	6		
	server has at least functions which perform the following:			
	Start-up , Send Message, Receive Message			
	client has at least functions which perform the following:			
	Initiate Contact, Send Message, Receive Message			
	Uses socket API	1		
	Runs on flip	1		
	chatserver in Java or Python, chatclient in C/C++	0		
	(deduct up to 40 points for improper languages)			
	Cites sources for borrowed code	0		
	(deduct up to 40 points for sources not cited)			
Coding Style (4 pts)				
	Coded using readable indentation, white-space, etc.	2		
	Useful, readable output	2		
Extras				
	Server is multi-threaded			
	Other?			
Score		50	0	