CPT 113 – ASSIGNMENT 1 RUBRIC

Group Number: ________________________

Criterion	Poor (1-2)	Fair (3-4)	Moderate (5-6)	Good (7-8)	Excellent (9-10)	Marks	Comments
Program Completeness • read from file • working cohesively • clear • have inheritance, composition, friend function • single array of object used in main • At least one overloading operator • Runable	Program work but class run individually. Inheritance or composition is not communicating well. Incomplete requirements fulfilled.	Missing two or more components.	Contain all the specifications. Program is not very cohesive.	Fulfils basic program completeness.	Complete and following program specification. All classes communicating correctly and consistently.		
Comply to OO Programming • inheritance & composition is communication correctly • only one or two (max) friend function	Not fulfilling encapsulation and information hiding. Uncontrol use of friend function	Coding style is not easy to be read. Naming convention is not very consistent.	Program sufficiently easy to read and maintain. Composition is private and used wisely. Inheritance is sensible and correct.	Program easy to read and maintain. Composition is private and used wisely. Inheritance is sensible and correct.	All coding style are easy to read and easy to maintain. Inheritance, composition, friend function and overloading operator.		

Criterion	Poor (1-2)	Fair (3-4)	Moderate (5-6)	Good (7-8)	Excellent (9-10)	Marks	Comments
• Encapsulation and information hiding is fulfilled • Only **one** object • Program easy to read				Use of overloading operator is correct. Use of friend function is justifiable.	Friend function is justifiable. All variables usage are at where it is supposed to.		
Complexity and Sophistication • Program is well thoughts and design • explanation on solving method is described • program correctness • array of object is justifiable • Using multiple file inclusion	Program lack of depth.	Program resembling procedural programming.	Program portray understanding of advance class processing.	Program is well design and portray understanding of advance class processing.	Program is well thought and portray strong understanding of advance class processing.		
Documentation • problem to be solved in address clearly • explanation on solving method is described • UML reflecting the program							

Criterion	Poor (1-2)	Fair (3-4)	Moderate (5-6)	Good (7-8)	Excellent (9-10)	Marks	Comments
• Sample test cases provided							

Individual Marks: ________________________

Criterion	Poor (1-2)	Fair (3-4)	Moderate (5-6)	Good (7-8)	Excellent (9-10)	Marks	Comments
Realtime Assessment • Participation • Congruency • Communication • Teamwork	Able to answer basic	Identification can be done. Program modification cannot be achieved	Partially correct modification	Able to identify and modify program correctly	Able to identify and modify program. Hypothetical situation can be describe succinctly.		

Criterion	Marks	Comments
PENALTY		
Using `friend` class	- 60%	
Composition is `public` or `protected`	- 50%	
Multiple objects in `main()`	- 70%	
Create a bridge main()	-70%	
Relationship form circles for all classes available	-70%	
Groups copying each other	- (all marks)	

Criterion	Marks	Comments
Bonus		

TOTAL		