

TA Name: ………………………………………… Mark: ……..

# CS251 – Introduction to Software Engineering, 2021

**Each student fills this form for his program and gives it to TA**

The questions to answer about each program are included in the following form. **Print and fill this form and bring with you to the discussion.**

**Student name:** Mostafa Ashraf Mostafa **ID: 20190528 Group: s15**

**Which Program (Idea for task 2) did you choose?**  Problem 2

#### Which of the following Java / OOP features did you use in your program?

1. How many classes did you create and their names? 2 classes and their names (client),(commercialclient)
2. How many different access specifiers did you use and their names? 2 access specifiers: public and private
3. How many Java coding style rules did you use and which ones? 1 and it is names for variables and functions
4. How many Javadoc tags did you use and which ones

**17 @return 34 @param 1 @author 1 @since**

5. Did you use inheritance? When and why?

yes, class commercialclient inherits from client class

6. Did you use method overriding? When and why?

Yes, method to string in class commercialclient overrides the method tostring in client class

7. Did you use method composition? When and why?

When creating an object from another class account in client class to aggregate information of account to client .

8. Did you use method polymorphism? When and why?

When make 2 tostring methods in base and child classes and create an object from any of them

Draw in the space below a simple UML class diagram that shows your main classes, their attributes and operations and their interactions with each other.

In the attached photo.