Lab 9:

Programming Fundamentals (CS-130-02)

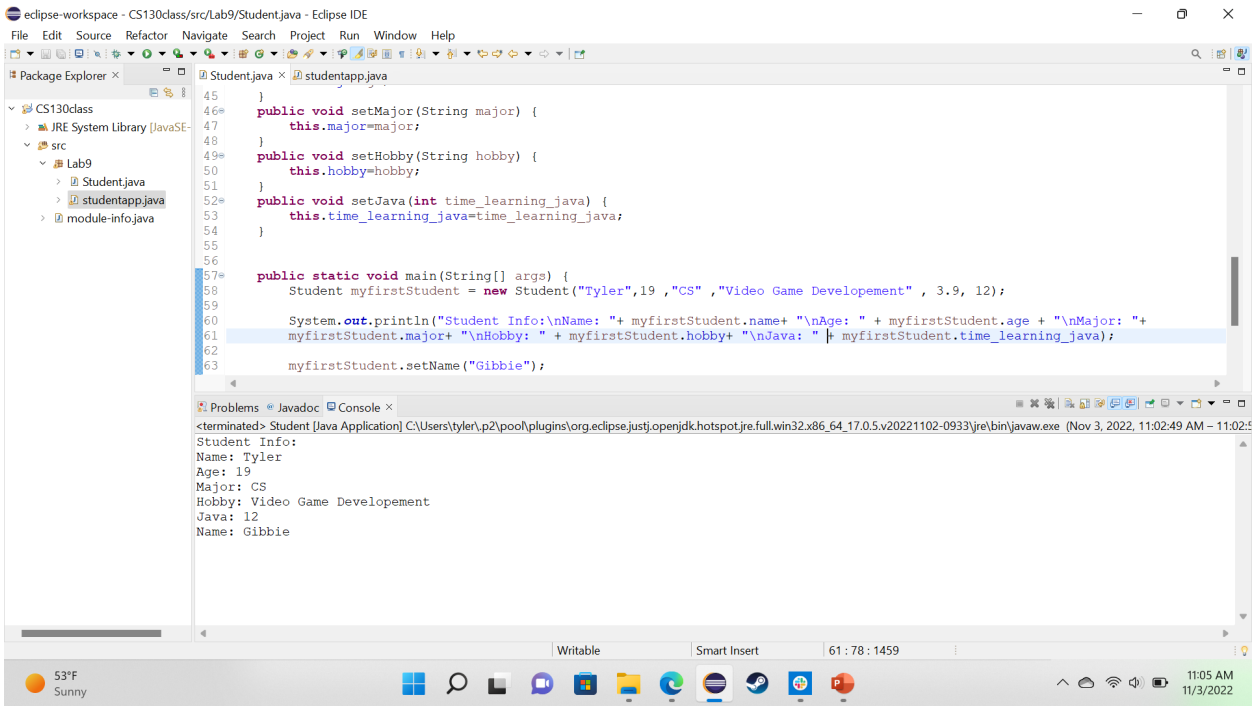
CS 130-02 FA 2022 **Total=100**

Open Eclipse IDE and create a new class for each of the following questions: Choose class name that most appropriately defining the problem. Take a print screen of the code with console output.

Question 1.

Student
-name: String -age: int -major: String -hobby: String -expected_GPA: double -spent_time_learn_JAVA: int
+Student() +Student(String name, int age, String major, String hobby, double expected_GPA, int ..JAVA) +HonorsEligible():String

1. Implement the Student UML diagram with the above inputs
2. Create proper constructer and access all the private elements using getter and setter
3. Create a new method called HonorsEligible. If the student expected_GPA is more than 3.5, the student eligible for honors (True) else it will return False.



Question 2.

Class	Attribute	Method
Cylinder	-radius:double - height:double	+AreaCylinder():double +VolumeCylinder():double

1. Create Cylinder constructor, calculate area and perimeter of the cylinder for radius 10, height 5