United International University

Department of CSE
Midterm Examination
Summer 2022
CSI 212: Object Oriented Programming Laboratory
Section: D

Time: 1 Hour and 45 Minutes   **Total Marks: 15**

**[N.B.: Answer all the questions. Assume any data if it is not mentioned explicitly.
Any examinee found adopting unfair means will be expelled from the trimester/program as
per UIU disciplinary rules]**

1. Suppose your client want from you to get a streaming management system. By using the system your client will be able to manage the activities of the system easily.

   Create a class named **StreamInfo** inside of the **stream** package. **StreamInfo** class should have **uName**, u**AccountNo**, u**balance** and **numberOfMovie** instance varaiables. Your client wants to keep u**balance** and **numberOfMovie** private. There should be some methods to get and set(parameterized) the values of those private variables. **StreamInfo** does also have a constructor with four parameters to initialize the instance variables. **StreamInfo** also have few methods **updateUAccountNo** and **updateName()** (parameterized). There should be also a non-parameterized **watchMovie()** method which will reduce the **balance** by 50 and increase the **numberOfMovie** by 1 once it gets called.   [5]

2. Create another class named **StreamInfoV2** that inherits/extends the **StreamInfo** class. **StreamInfoV2** also have the non-parameterized **watchMovie ()** method which will reduce the **balance** by 100 and increase the **numberOfMovie** by 2 once it gets called.

   Now crate another class named **Main** inside of the **default/src** package. From the main class create an array of object of the **StreamInfoV2** class. The array size and the instance variables' values of each object will be user defined. Show the utilization of all of the **constructors** and **methods** that you have written inside of the both **parent** and **child** classes. Also print the person's name who have seen the minimum **numberOfMovie**.   [10]