**Section 1: Define / Answer**

Describe what computer events that can be handled in java programming-

|  |  |
| --- | --- |
| EVENT CLASS(Handlers) | LISTENER INTERFACE(Complete) |
| ActionEvent | ActionListener |
| ItemEvent | ItemListener |
| MouseEvent | MouseListener |
| KeyEvent | KeyListener |
| WindowEvent | WindowListener |
| ContainerEvent | ContainerListener |
| ComponentEvent | ComponentListener |
| FocusEvent | FocusListener |
| AdjustmentEvent | AdjustmentListener |

Task 1:

**USE OBJECT ORIENTATED PROGRAM DESIGN TO SOLVE PROBLEM**

Update Assignment #14.

Create 1 “Programmer Created” Class to read student data from the text file, and create student objects. (Objects will need to be stored in a data structure)

Create a class Student. Containing First Name, Last Name, private DOB, Social Security Number.

Containing protected class variables Street Address, and Zip Code

Containing public Student ID number, Major.

The program should execute in way that student objects are created.

Create a graphical user interface with buttons to run the program.

Use Comparator Interface to sort over different data fields.

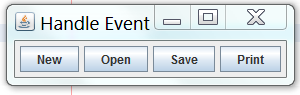
Create private modifiers for sensitive materials.

Return redacted versions of social security, DOB.

For example – Social security = XXX-XX-8010

DOB – XX/XX/1980

Attach Snipping Photos Below



If a button is pressed a sorted list of students by last name.

If a different button is pressed a sorted list of students by student ID.

etc.

