Advanced Java Semester 2 JD522 Formative 3 Jonathan Van Eyssen 20231438

Question 1 Main code screen shots

```
int userInput = Integer.parseInt(NumTxt.getText());//changes the users input to an integer value to use in the t
SyncThread suncThread = new SyncThread(userInput);//makes a new thread of the syncthread
AtomicThread atomThread = new AtomicThread(userInput);//makes a new thread of the Atomicthread
```

Question 1 Sync Thread screen shot

```
public class SyncThread extends Thread (

int value;//value that will be passed back from the thread

private int underloyue;//value that will be passed and used in the for loop.

public SyncThread(int value) //constructor for thread

this.userInput = value;

}

8Override

public synchronized void run() (

for (int i = 0; i < this.userInput; i++) (//uses the user input value to increment the counter the specific number of times.

value++;

}

//vh/th
```

Question 1 Atomic Integer Thread

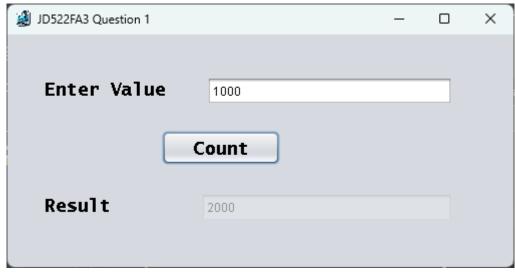
Question 1 Application screenshots



Application view on Opening



Error Message if user enters anything but a whole number



Application view once counting complete

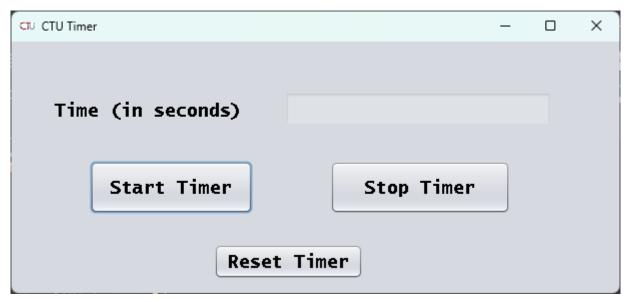
Question 2 Main Code screenshots

```
int stribtnBrcssed = 0;//this value is used to determine if the button is cliced more than once. This allows to start the thread with first click and continue the thread with the second click. bcolean stopped = false;//this is to break the loop in the update thread to pause the timer.

CNIThread counting = new CNIThread();//creates a new object of the counter thread, updateTextTield updating = new updateTextTield();//creates a new object of the update text field thread.
```

Question 2 Counter Thread Code screenshot

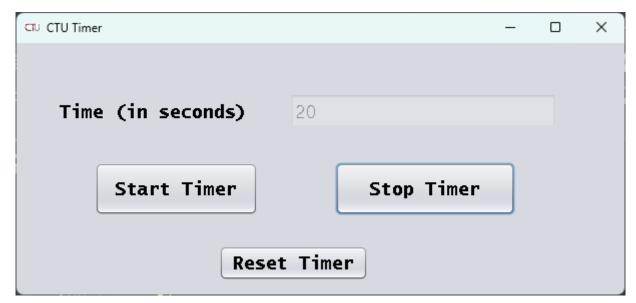
Question 2 Application screenshots



Application view on Opening



Application view on Staring the Timer



Application view on Stopping



Application view on Start Again



Reset feature Coming Soon