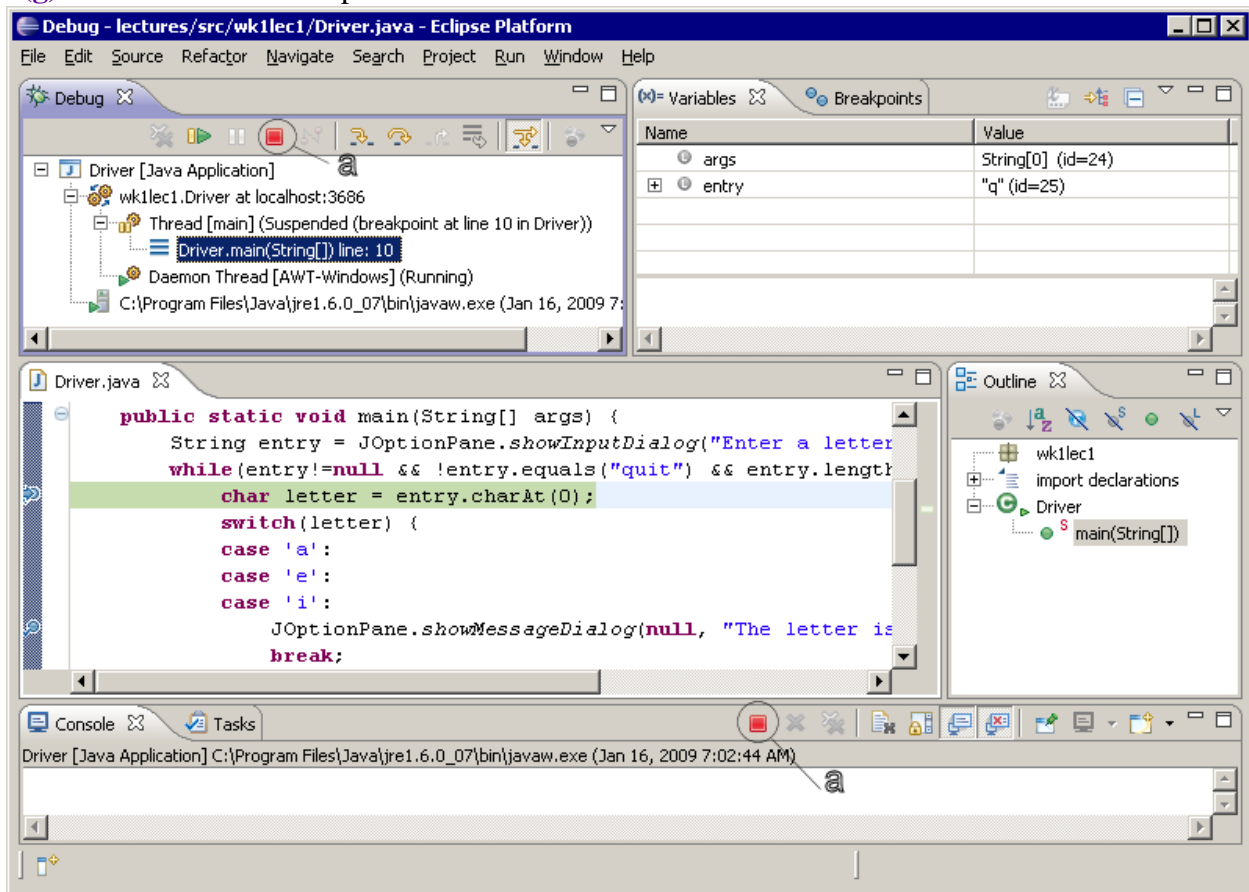


[You may use one side of an 8.5×11 inch sheet of paper for notes.] Show all of your work clearly in the space provided. Be sure to **read each problem carefully**. Note that the exam is double sided.

1. (20 points) The following figure is a screen capture of a program being debugged in Eclipse. Identify where you need to click or look in order to do/find the following. The first one has been done for you as an example.

- Terminate the program
- The next line of code to be run if the program continued on
- Step to the next line of the program
- Step into a method being called on the current line of execution
- Determine the value stored in the variable called entry
- Reveal the attributes of the entry object
- Location of all breakpoints visible on the screen





2. (10 points) Explain the concept of exception propagation; explain the outcome if an exception is thrown and no catch block for that exception is found on the program stack.



3. (20 points) Write a method that accepts an `ArrayList` of `Strings` as an argument and returns one `String` that contains all of the elements in the `ArrayList` separated by a single space. For example, if the `ArrayList` contained: "My", "job", "is", "to", "eat", and "less", the `String` returned should contain: "My job is to eat less".



4. (25 points) Write a class method, called `splitString`, that accepts a `String` containing a number of words and return an `ArrayList` of `Strings` with each word stored as a separate element in the `ArrayList`.

5. (25 points) Complete the following program which asks the user to enter a number, x , between one and 9. The program should display x rows with x on each row x times. For example:

User enters: 3	User enters: 5
Program displays:	Program displays:
3 3 3	5 5 5 5 5
3 3 3	5 5 5 5 5
3 3 3	5 5 5 5 5
	5 5 5 5 5
	5 5 5 5 5

```
public static void main(String[] args) {
```

```
}
```



Additional work area for any problem. Clearly identify to which problem the work on this page is related.