

NYU – Tandon School of Engineering

Brooklyn, NY 11201

# CS-UY 3913 / Java

Midterm Assignment

Prof. Katz

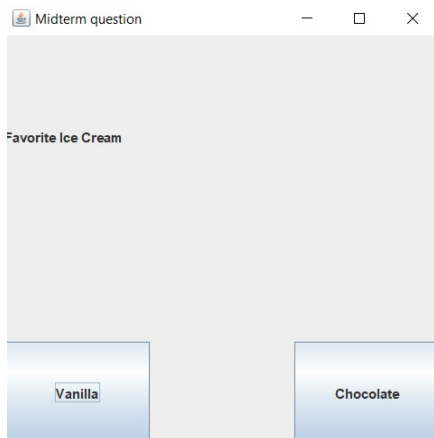
- Comments are not required
- Anyone found cheating on this exam will receive a zero for the exam.
- If you have a question please ask the professor

By submitting this exam paper your pledge, on your honor, that you have neither given nor received aid from anyone in the completion of this exam.

We're going to write software to take a survey. There are 5 questions in our survey and each has just two options. We want our users to be presented with the options and choose quickly, as too much thinking spoils the results. Therefore, we are imposing a 5 second rule on all questions. That is, if you exceed 5 seconds for any one question, the survey ends and only the questions you answered are recorded. At the end of the survey, print the user's choices in the question space. (A JAR file of the full program is provided)

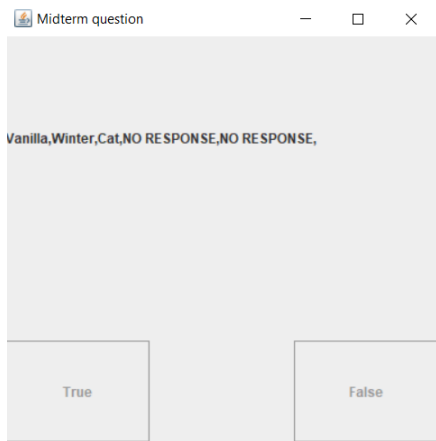
- Favorite Ice Cream
  - Vanilla
  - Chocolate
- Which season is better
  - Winter
  - Summer
- Which pet is better
  - Cat
  - Dog
- Unicorns are real
  - True
  - False
- Text or call
  - Text
  - Call

You should design a program with a rather simple interface. The look/feel is as below:



As you can see, the question is presented in a top area and the questions are below with some spacing in between.

The results should be printed after the last question or after the user took more than 5 seconds to answer any question.



## DELIVERABLES

- Start this by creating a Question class. The Question class will store the question, the left button's text and the right button's text. This class should have a constructor which takes three items, the question, the left and the right button text. Since True/False questions are so common, we would like a constructor which allows for this as the default (True is left, False is Right).
- Now start with your "Main" class. You must have an array of 5 Question objects and an array of 5 String objects for the responses, and you may have any other objects you want.
- Obviously, you will need a button listener class, but you should have just one
- Create a class which will ensure that the 5 second, per question, time limit is enforced