

## **Bob's Sobriety Safety Calculator**

Within java, I plan to create a program that will allow the user to simulate the effects of different types and amount on the human body. The user will be able to select the type of alcohol, how much is ingested, over what period the ingestion took place, the simulated body's status before drinking (recent food intake, hydration, sleep, etc.), and whether the simulated human body is an average college age male or average college age female.

The program will store the user's inputs in variables and calculate them against differing weights and ratios to return a "score" which will match up with a certain "outcome" on the simulated body. The program will be designed for a simple and understandable interface with the ability to repeat and modify simulations to test what inputs create what outputs on the body. There will be buttons on the interface to link to further sources for alcohol education as well as resources for Marist's title IX alcohol policies.

Potential functionality I could implement is allowing the user to select from multiple body weights and heights as well as age for both males and females. This could allow the user to tailor the simulation to make it more accurate for them. The implementation of this feature will depend on the success of prior features and the pace of the project.