Assignment 2

CIS5930

Jarod Klion

1. **if** ((*Gender* == 1) & (*Blood Pr* <= 178) & (*Cholesterol* <= 270 ) & (*Chest Pain* <= 3)) | (*Gender* == 0):

**then** *Result* = “no”

**elif** ((*Gender* == 1) & (*defect* >= 6) & (*Cholesterol* >= 167)) |

((G*ender* == 0) & (*Cholesterol* >= 290) & (*Chest Pain* > 3)):

**then** *Result* = “yes”

1. I started with seeing that most women (*gender* = 0) had a “no” result, so I set every result to “no” first for my rule. I then noted that only one woman with *Chest Pain* ≠ 4 had a “yes” result, so I looked for what mainly differentiated the women with *Chest Pain* = 4, which happened to be Cholesterol and used the value that covered the most “yes” results without encapsulating too many “nos”. For the men, I looked for the criteria that would delineate most between all patients belonging to “yes”, which happened to be *defect* >= 6 and *Cholesterol* >= 167. Doing the same process for “no”, we see that *Blood Pr* was also a good criteria for deciding the result.