**Lab 4 Submission**

**Data Wrangler Script and Screenshot: CMSC**

**Data Wrangler Script and Screenshot: World Cup 1**

**Data Wrangler Script and Screenshot: World Cup 2**

**UNIX Tools Command: CMSC**

**cat cmsc.txt | awk -F'[ ,\)]' 'BEGIN {print "Course No.,\tSection No.\tInstructor\tSeats\tOpen\tWaitlist\tDays Time\t\t\tBldg.\tRoom No."} /^CMSC[0-9][0-9][0-9]$/ {print $1;} /^[0-9][0-9][0-9][0-9]$/ {print "\t\t", $0;} /^[-A-Za-z]+( [-A-Za-z]+)$\*/ {print "\t\t\t\t", $0;} /^Seats \(Total: [0-9]+, Open: [0-9]+, Waitlist: [0-9]+\)$/ {print "\t\t\t\t\t\t", $3, "\t", $6, "\t", $9;} /^[MWFTuh]+ [0-9]+:[0-9]+/ {print "\t\t\t\t\t\t\t\t\t\t", $1, " ", $2, $3, $4;} /^[A-Z]+ [0-9][0-9][0-9][0-9]$/ {print "\t\t\t\t\t\t\t\t\t\t\t\t\t\t", $1, "\t", $3;}'**

**UNIX Tools Command: World Cup 1**

**Python Script: CMSC**

**Python Script: World Cup 1**

**Python Script: World Cup 2**