**Winter 2016 - Cmpt 103**

**Section 41 - Lab 5 – Milestone 1 mark sheet**

**Student name:** Metehan Dagsuyu **Total: 75 marks**

**Programming style: [6 marks]**

* Repeating code unnecessarily:  **-1**
  + You are recreating a winning board in is\_game\_over when you could call setup\_game to get a winning board.
* Accurate and well-written comments: **-1**
  + Since you did not break down the display function into smaller functions, you should have included comments within the function to explain what each section was doing. It’s not obvious by looking at it.

**Question 1: setup\_game [17.5 marks]**

* Function header for setup\_game: **-0.5**
  + Explaining the order and amount of all of the colors would be helpful.
  + Incorrect syntax. It needs to start with ‘board =’ as that is what is returned:
  + Missing parameter. You need to write ‘None’ not leave it blank.

**Question 2: display**  **[28 marks]**

* Top row of the board is not printed properly:
  + It printed positions 24 – 25 – 26 – 27 – 28 – 0 – 1 – 2 – 3 rather than positions 27 – 28 – 29 – 30 – 31 – 0 – 1 – 2 - 3: **-4**
* Top middle board rows are not printed properly:
  + Does not show positions 26, 25, and 24 on the LHS. It repeatedly shows position 24: **-2**
  + Does not show positions 4, 5, and 6 on the RHS. It repeatedly shows position 0:  **-2**
* Middle row of the board is not printed properly:
  + Does not show position 23 on the LHS. It shows position 16: **-1**
  + Does not show position 7 on the RHS. It shows position 0:  **-1**
* Bottom middle board rows are not printed properly:
  + Does not show positions 22, 21, and 20 on the LHS. It repeatedly shows position 16: **-2**
  + Does not show positions 8, 9, and 10 on the RHS. It repeatedly shows position 8:  **-2**
* Bottom row of the board is not printed properly:
  + It printed positions 16 – 17 – 18 – 19 – 8 – 9 – 10 – 11 - 12 rather than 19 – 18 – 17 – 16 – 15 – 14 – 13 – 12 - 11: **-4**
* Here is a corrected version of your code:

def display(board):

print("".join(board[27:32]+ board[:4]))

for repeat in range(3):

print("".join([board[26-repeat]]+ [" "] \*7 + [board[4+repeat]]))

print("".join([board[23]] + [" "]\*3 + [board[32]] + [" "]\*3 + [board[7]]))

for repeat in range(3):

print("".join([board[22-repeat]] + [" "]\*7 + [board[8+repeat]]))

print("".join(board[19:10:-1]))

**Question 3: exchange**  **[10 marks]**

* Incorrect exchange performed:
  + Board value at position second was copied to position first. Then board position first was copied to second. However, board position first no longer held its original value so it effectively copied board position second to both locations: **-4**
  + This is how you should do it:

temp = board[first]

board[first] = board[second]

board[second] = temp

**Question 4: is\_game\_over** **[13.5 marks]**

* Function header for is\_game\_over:
  + Syntax should start with ‘is\_over =’ as shown in the assignment:  **-0.5**