Report – Assignment 2 COL216 (Tic Tac Toe)

- 1. First of all, we created 3 arrays of size 3 with initial value of $\{0, 0, 0\}$.
- 2. We use while loop by calling label 'while' again and again untill we get the value of counter to 9 (take 9 input pairs)
- 3. After taking each input, we check whether it is valid or not. If not, then that player loses his/her chance and turn goes to the other player.
- 4. we create a label 'checker' to check whether there is any row or column or diagonal for which the sum is 3 (for player 1) or -3 (for player 2).
- 5. we call 'checker' after taking each pair of input, if we find the sum 3 then we print "Player 1 won" and exit the game, for sum -3, we print "Player 2 won" and exit is called.
- 6. If the counter hits 9 and we couldn't get sum 3 or -3, then "Match Tie" is printed and exit is called.
- 7. Before exiting, label "showarrayfinal" is called, which prints these three arrays one by one line by separating each element by <space> and each line by <\n>
- 8. there are separate labels for valid or invalid inputs which are called after each input.

TOTAL LABELS:

main

while

PoneAone

valid1

invalid1

endif1

endendif1

PoneAtwo

valid2

invalid2

endif2

endendif2

PoneAthree

valid3

invalid3

endif3

endendif3

PtwoAone

valid12

invalid12

endif12

endendif12

PtwoAtwo

valid22

invalid22

endif22

endendif22

PtwoAthree

valid32

invalid32

endif32

endendif32

enter

checker

binvalid1

binvalid2

showarrayfinal

final

tie

final1

final2

exit