ENSF 409, Lab 4, Ex 3, Demonstration

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# Human vs. Human

Please enter the name of the 'X' player: X\_Human\_1

What type of player is X\_Human\_1?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 1

Please enter the name of the 'O' player: O\_Human\_2

What type of player is O\_Human\_2?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 1

Referee started the game...

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human\_1, enter the row to place 'X' mark in: 0

X\_Human\_1, enter the column to place 'X' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

O\_Human\_2, enter the row to place 'O' mark in: 1

O\_Human\_2, enter the column to place 'O' mark in: 1

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human\_1, enter the row to place 'X' mark in: 1

X\_Human\_1, enter the column to place 'X' mark in: 1

Please try entering a row and column again, as an invalid move was just made.

X\_Human\_1, enter the row to place 'X' mark in: 2

X\_Human\_1, enter the column to place 'X' mark in: 2

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | X |

| | | |

+-----+-----+-----+

O\_Human\_2, enter the row to place 'O' mark in: 2

O\_Human\_2, enter the column to place 'O' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | O | | X |

| | | |

+-----+-----+-----+

X\_Human\_1, enter the row to place 'X' mark in: 0

X\_Human\_1, enter the column to place 'X' mark in: 2

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | X |

| | | |

+-----+-----+-----+

| | | |

row 1 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | O | | X |

| | | |

+-----+-----+-----+

O\_Human\_2, enter the row to place 'O' mark in: 1

O\_Human\_2, enter the column to place 'O' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | X |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | O | | X |

| | | |

+-----+-----+-----+

X\_Human\_1, enter the row to place 'X' mark in: 1

X\_Human\_1, enter the column to place 'X' mark in: 2

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | X |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | O | X |

| | | |

+-----+-----+-----+

| | | |

row 2 | O | | X |

| | | |

+-----+-----+-----+

The game is now over: Player 'X' (X\_Human\_1) wins the game!

# Human vs. Random

Please enter the name of the 'X' player: X\_Human

What type of player is X\_Human?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 1

Please enter the name of the 'O' player: O\_Random

What type of player is O\_Random?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 2

Referee started the game...

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 1

X\_Human, enter the column to place 'X' mark in: 1

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 0

X\_Human, enter the column to place 'X' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 1

X\_Human, enter the column to place 'X' mark in: 2

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | X | X |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | X | X |

| | | |

+-----+-----+-----+

| | | |

row 2 | | O | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 1

X\_Human, enter the column to place 'X' mark in: 2

Please try entering a row and column again, as an invalid move was just made.

X\_Human, enter the row to place 'X' mark in: 2

2X\_Human, enter the column to place 'X' mark in:

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | X | X |

| | | |

+-----+-----+-----+

| | | |

row 2 | | O | X |

| | | |

+-----+-----+-----+

The game is now over: Player 'X' (X\_Human) wins the game!

# Human vs. Blocking Player

Please enter the name of the 'X' player: X\_Human

What type of player is X\_Human?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 1

Please enter the name of the 'O' player: O\_Blocking

What type of player is O\_Blocking?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 3

Referee started the game...

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 1

X\_Human, enter the column to place 'X' mark in: 1

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 0

X\_Human, enter the column to place 'X' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | O |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | O |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 0

X\_Human, enter the column to place 'X' mark in: 2

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | X |

| | | |

+-----+-----+-----+

| | | |

row 1 | | X | O |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | O |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | X |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | X | O |

| | | |

+-----+-----+-----+

| | | |

row 2 | O | | O |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 2

X\_Human, enter the column to place 'X' mark in: 1

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | X |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | X | O |

| | | |

+-----+-----+-----+

| | | |

row 2 | O | X | O |

| | | |

+-----+-----+-----+

The game is now over: The game ended in a tie.

# Human vs. Smart Player

Please enter the name of the 'X' player: X\_Human

What type of player is X\_Human?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 1

Please enter the name of the 'O' player: O\_Smart

What type of player is O\_Smart?

1: Human

2: Random Player

3: Blocking Player

4: Smart Player

Please enter a number in the range 1-4: 4

Referee started the game...

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 0

X\_Human, enter the column to place 'X' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 2

X\_Human, enter the column to place 'X' mark in: 2

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | |

| | | |

+-----+-----+-----+

| | | |

row 1 | | | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | X |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | | | X |

| | | |

+-----+-----+-----+

X\_Human, enter the row to place 'X' mark in: 2

X\_Human, enter the column to place 'X' mark in: 0

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | | O | |

| | | |

+-----+-----+-----+

| | | |

row 2 | X | | X |

| | | |

+-----+-----+-----+

|col 0|col 1|col 2

+-----+-----+-----+

| | | |

row 0 | X | O | O |

| | | |

+-----+-----+-----+

| | | |

row 1 | O | O | O |

| | | |

+-----+-----+-----+

| | | |

row 2 | X | O | X |

| | | |

+-----+-----+-----+

The game is now over: Player 'O' (O\_Smart) wins the game!