Flip Coin Simulation Problem

UC 1 : As a Simulator start with Flipping a Coin to Display Heads or Tails as winner

**Output :**

suraj@DESKTOP-TFH17A1 MINGW64 ~/codin club/Flip\_Coin\_Simulation\_Problem (UC-1-DisplayWinner)

$ ./flipCoinSimulator.sh

Heads Winner.

UC 2 : As a simulator, loop through Multiple times of flipping a coin and show number of times head and tail has won

**Output :**

suraj@DESKTOP-TFH17A1 MINGW64 ~/codin club/Flip\_Coin\_Simulation\_Problem (UC-2-ShowCountHeadTail)

$ ./flipCoinSimulator.sh

Head Winner.

Tail Winner.

Head Winner.

Tail Winner.

Tail Winner.

Tail Winner.

Tail Winner.

Tail Winner.

Tail Winner.

Tail Winner.

Tail Winner.

Head Winner.

Tail Winner.

Head Winner.

Head Winner.

Head Winner.

Tail Winner.

Head Winner.

Tail Winner.

Tail Winner.

Head Winner.

Total Head Wins out of 21 is 8

Total Tail Wins out of 21 is 13

UC 3 : Modify the earlier UC 2 to continue till either of them have won 21 times. Show if it’s a Win or Tie. If Win then who won and by how much won and by how much

**Output :**

suraj@DESKTOP-TFH17A1 MINGW64 ~/codin club/Flip\_Coin\_Simulation\_Problem (UC-3-ShowWinsorTie)

$ ./flipCoinSimulator.sh

Tail Winner

difference between Head and Tail is 11

Total Tail Wins out of 31 is 21

Total Head Wins out of 31 is 10

UC 4 : Extend UC 3 to ensure if its tie then the game continues till the difference of minimum 2 points is achieved

**Output :**

suraj@DESKTOP-TFH17A1 MINGW64 ~/codin club/Flip\_Coin\_Simulation\_Problem (UC-4-IftieCheckDiff)

$ ./flipCoinSimulator.sh

Head Winner

difference between Head and Tail is 1

Total Tail Wins out of 41 is 20

Total Head Wins out of 41 is 21

suraj@DESKTOP-TFH17A1 MINGW64 ~/codin club/Flip\_Coin\_Simulation\_Problem (UC-4-IftieCheckDiff)

$ ./flipCoinSimulator.sh

Tie game

difference between Head and Tail is 0

Total Tail Wins out of 40 is 19

Total Head Wins out of 40 is 19

if while done

Head Winner

difference between Head and Tail is 3

Total Tail Wins out of 55 is 25

Total Head Wins out of 55 is 28