

30 pts

Name 1: _____

Name 2: _____

Class Day / Time: _____

Due Date: _____

Lab #2 – Functions – Coin Flip

Write a program that simulates flipping a coin repeatedly and continues until three consecutive heads are tossed. At that point, your program should display the total number of coin flips that were made and the average number of heads.

- #1 – Write a function to read in the user's information (name & gender)
- #2 – Write a function to flip the coin and return a bool (heads = true, tails = false)
- #3 – Write a function to calculate the average of heads vs. total flips
- #4 – Write a function to output the results

Address male users as Mr. and female users as Ms. **HINT:** Code one function at a time and test it... then add the loop and re-test.

TURN IN (stapled and in this order) – Include three (3) test runs.

- 1 – Turn in the **FIRST PAGE ONLY** of this assignment as a cover sheet.
- 2 – Output (cut and pasted into a txt file in eclipse)
- 3 – Source Code (printed from eclipse — PROPERLY DOCUMENTED)

INPUT/OUTPUT – should be formatted as follows – This represents one possible sample run
(Class heading should be also displayed)

Welcome to coin toss! Get 3 heads in a row to win!

What is your name? Ed Peck

What is your gender (m/f): M

Try to get 3 heads in a row. Good luck Mr. Ed Peck!

Press <enter> to flip

TAIL

Press <enter> to flip

HEAD

Press <enter> to flip

TAIL

Press <enter> to flip

HEAD

Press <enter> to flip

HEAD

Press <enter> to flip

HEAD

It took you 6 tosses to get 3 heads in a row.

On average you flipped heads 67% of the time