A close up of a logo

Description automatically generated

Senzo Zwelihle Masango BP 412 Summative

Senzo Masango

Flip coin Game

from tkinter import \*

import random

root = Tk()

root.resizable(False, False)

root.title('Coinflipper')

topframe = Frame(root)

topframe.pack()

botframe = Frame(root)

botframe.pack(side=BOTTOM)

midframe = Frame(root)

midframe.pack()

choice = Label(topframe, text="Enter the number of flips: ")

choice.grid(row=1)

ent = Entry(topframe)

ent.grid(row=1, column=2)

clickit = Button(botframe, text="FLIP THE COIN!!!")

clickit.pack()

out = Text(midframe, width=15, height=1)

out2 = Text(midframe, width=15, height=1)

out.grid(row=1, column=1, columnspan=3)

out2.grid(row=2, column=1, columnspan=3)

def flipy(event):

guess = ent.get()

heads = []

tails = []

if guess == '' or guess == str(guess):

out.delete(1.0, "end-1c")

out.insert("end-1c", 'Invalid')

for flips in range(int(guess)):

out.delete(1.0, "end-1c")

out2.delete(1.0, "end-1c")

random\_number = random.randint(1, 2)

if random\_number == 1:

heads.append("Heads")

elif random\_number == 2:

tails.append("Tails")

out.insert("end-1c", len(tails))

out.insert("end-1c", " -TAILS")

out2.insert("end-1c", len(heads))

out2.insert("end-1c", " -HEADS")

clickit.bind("<Button-1>", flipy)

root.mainloop()

User interFace

root.title('Coinflipper')

root.geometry("300x100")

root.resizable(False,False)

“Textbox”

choice = Label(text="How Many Flips: ")

T = Label(text="Tails: ")

H = Label(text="Heads: ")

ent = Entry(root)

out = Text(width=15, height=1)

out2 = Text(width=15, height=1)

“Grid”

choice.grid(row=0, column=0, sticky=E)

T.grid(row=1,column=0,sticky=E)

H.grid(row=2,column=0,sticky=E)

ent.grid(row=0, column=1, columnspan=3)

out.grid(row=1, column=1, columnspan=3)

out2.grid(row=2, column=1, columnspan=3)

“Button”

clickit = Button(text="FLIP THE COIN!!!")

clickit.grid(row=3,column=1)

Record number of times(Heads/Tails)

N = int(raw\_input("\nNumber of times to flip the coin: "))

print "\n"

f = open('/probabilty/coin toss/coin toss.txt', 'w')

f.write('Coin Toss Program Results\n')

f.write('Coin Toss Programmed by Devon McAvoy\n')

nstr = 'The coin was flipped ' + repr(N) + ' times.'

f.write(nstr)

f.write('\n')