Michael Steele

Lab 11

Seat 29

from tkinter import \*

class bmi:

def \_\_init\_\_(self):

window=Tk()

window.title("BMI Calculator")

Label(window,text="Height(Inches): ").grid(row=1,column=1,sticky=W)

Label(window, text="Weight(Pounds): ").grid(row=2, column=1, sticky=W)

self.height = StringVar()

Entry(window, textvariable=self.height, justify=RIGHT).grid(row=1, column=2)

self.weight = StringVar()

Entry(window, textvariable=self.weight, justify=RIGHT).grid(row=2, column=2)

self.output = StringVar()

lblOutput = Label(window,textvariable = self.output).grid(row=4,column=2,sticky=E)

but = Button(window,text="Computer BMI",command=self.computerBMI).grid(row=6,column=2,sticky=E)

window.mainloop()

def computerBMI(self):

try:

if(float(self.height.get()) <= 0 or (float(self.weight.get()) <= 0)):

self.output.set("You cannot enter values which are less than or equal to zero")

else:

convertedHeight = self.getBMI(float(self.height.get()), float(self.weight.get()))

self.output.set("The body mass index value for the numbers you entered is:"+format(convertedHeight,'10.2f'))

except ValueError:

self.output.set("You cannot enter letters as input, only numbers greater than zero")

def getBMI(self,height0,weight0):

BMI=weight0\*703/(height0\*\*2)

return BMI

bmi()

----------------------------------PART2-------------------------------

from tkinter import \*

import time

master = Tk()

w = Canvas(master, bg="grey", width=500, height=500,)

img1 = w.create\_oval(0, 0, 100, 100, fill="blue", outline = 'green')

img2 = w.create\_rectangle(100, 100, 400, 400, fill="green", outline = 'green')

startingLine = w.create\_line(0,100,100,100)

text1 = w.create\_text(40,90,

text="Start/Finish")

text2 =w.create\_text(500 / 2,

500 / 2,

text="Python Race Track")

w.pack()

value = .01

while True:

for x in range(0 ,400):

w.move(img1,0,1)

w.update()

time.sleep(value)

for x in range(0 ,400):

w.move(img1,1,0)

w.update()

time.sleep(value)

for x in range(0 ,400):

w.move(img1,0,-1)

w.update()

time.sleep(value)

for x in range(0 ,400):

w.move(img1,-1,0)

w.update()

time.sleep(value)

master.mainloop()