GUI Assignment #5 - Bouncing Ball

```
from tkinter import *
import time
# main
root=Tk()
root.title("Moving Objects")
root.geometry("800x600+0+0")
c=Canvas(root, width=700, height=500, bg="black")
c.place(x=10, y=10)
# intial location, direction and speed for blue oval on canvas
x=200
y = 200
xdirection = 1
ydirection = 1
speed = 2
moving = True
# Create oval object
point= c.create_oval(x,y,x+20,y+20,fill="blue")
while moving:
    x+= xdirection * speed # move blue oval in x direction
    y+= ydirection * speed # move blue oval in y direction
    # check for right side boundary
    if x>700:
        xdirection = -1
   # check for bottom boundary
    if y>500:
        ydirection = -1
    # now do upper and right left wall
    c.moveto(point,x,y) # move point to new location
    time.sleep(.01) # delay
    root.update() # redraw canvas
root.mainloop()
```

Assignment #5

- 1. Add code to make the ball bounce off the top and left walls.
- 2. Add a transparent .png and bounce this image in the reverse direction to the ball at a different speed.
- 3. Add another object that moves differently than the objects above.
- 4. Add a background image to the canvas.
- 5. Add two improvements to this program.