Current listing of all functions available in the KT_Lib.py library for use with the DJI Tello EDU in the KIPR Aerial Botball Challenge Program.

```
#Sends the "command" command to Tello EDU Drone to enter SDK
mode.
connect()
```

```
#Closes the connection to the Tello EDU Drone.
disconnect()
```

```
#Sends the "takeoff" command to Tello EDU Drone.
takeoff()
```

```
#Sends the "land" command to Tello EDU Drone.
land()
```

```
#Sends the "stop" command to Tello EDU Drone and causes drone to
hover in the air no matter the previous state of the drone.
stop()
```

```
#Sends the "emergency" command to Tello EDU Drone and stops
motors immediately.
emergency()
```

```
#Sends the "streamon" command to Tello EDU Drone and enables
video streaming.
streamon()
```

```
#Sends the "streamoff" command to Tello EDU Drone and disables
video streaming.
streamoff()
```

```
#Sends the "mon" command to Tello EDU Drone and enables Mission
Pad detection.
mon()
```

```
#Sends the "moff" command to Tello EDU Drone and disables
Mission Pad detection.
moff()
```

#Sends the "up x" command to Tello EDU Drone with a default distance of 50cm. Input can range from 20–500cm.
```
up("cm")
```

#Sends the "down x" command to Tello EDU Drone with a default distance of 50cm. Input can range from 20–500cm.
```
down("cm")
```

#Sends the "left x" command to Tello EDU Drone with a default distance of 50cm. Input can range from 20–500cm.
```
left("cm")
```

#Sends the "right x" command to Tello EDU Drone with a default distance of 50cm. Input can range from 20–500cm.
```
right("cm")
```

#Sends the "forward x" command to Tello EDU Drone with a default distance of 50cm. Input can range from 20–500cm.
```
forward("cm")
```

#Sends the "back x" command to Tello EDU Drone with a default distance of 50cm. Input can range from 20–500cm.
```
back("cm")
```

#Sends the "cw x" command to Tello EDU Drone and causes drone to turn clockwise. Defaults to 90 degrees with no input, and input can range from 1–360.
```
cw("degrees")
```

#Sends the "ccw x" command to Tello EDU Drone and causes drone to turn counterclockwise. Defaults to 90 degrees with no input, and input can range from 1–360.
```
ccw("degrees")
```

#Sends the "curve x1 y1 z1 x2 y2 z2 speed" command to Tello EDU Drone and causes the drone to fly at a curve according to the given two coordinates at the specified speed. X,Y,Z input can range from –500–500 and speed of cm/s input can range from 10–60.
```
curve("x1", "y1", "z1", "x2", "y2", "z2", "speed")
```


KISS INSTITUTE FOR PRACTICAL ROBOTICS

Autonomous Aerial

#Sends the "flip x" command to Tello EDU Drone and cause the drone to do a flip with a default direction of forward. Input can be "f" – front, "b" – back, "l" – left, and "r" – right.
```
flip("direction")
```

#Sends the "speed x" command to Tello EDU Drone with a default speed of 20cm/s. Input can range from 10-100.
```
speed("cm/s")
```

#Sends the "speed?" command to Tello EDU Drone and returns the current speed in cm/s.
```
get_speed()
```

#Sends the "battery?" command to Tello EDU Drone and returns the current battery percentage.
```
get_battery()
```

#Sends the "time?" command to Tello EDU Drone and returns the current flight time.
```
get_time()
```

#Sends the "wifi?" command to Tello EDU Drone and returns the current Wi-Fi signal to noise ratio.
```
get_wifi()
```

#Sends the "wifi ssid pass" command to Tello EDU Drone and allows the user to update the SSID (or Wi-Fi name) and password.
```
wifi_ssid_pass("ssid", "password")
```

#Sends the "go x y z speed" command to Tello EDU Drone and causes the drone to fly to the given coordinate at the specified speed. X,Y,Z input can range from -500-500 and speed of cm/s input can range from 10-100.
```
go("x", "y", "z", "speed")
```