```
Help on Tello in module djitellopy.tello object:
class Tello(builtins.object)
| Tello(host='192.168.10.1', retry count=3)
 | Python wrapper to interact with the Ryze Tello drone using the official
Tello api.
 I Tello API documentation:
| [1.3](https://dl-
cdn.ryzerobotics.com/downloads/tello/20180910/Tello%20SDK%20Documen
tation%20EN_1.3.pdf),
[2.0 with EDU-only commands](https://dl-
cdn.ryzerobotics.com/downloads/Tello/Tello%20SDK%202.0%20User%20Gui
de.pdf)
  Methods defined here:
    _del__(self)
    _init__(self, host='192.168.10.1', retry_count=3)
    Initialize self. See help(type(self)) for accurate signature.
```

```
| connect(self, wait for state=True)
     Enter SDK mode. Call this before any of the control functions.
  connect to wifi(self, ssid: str, password: str)
     Connects to the Wi-Fi with SSID and password.
     After this command the tello will reboot.
     Only works with Tello EDUs.
 curve xyz speed(self, x1: int, y1: int, z1: int, x2: int, y2: int, z2: int, speed:
int)
    Fly to x2 y2 z2 in a curve via x2 y2 z2. Speed defines the traveling speed
in cm/s.
     - Both points are relative to the current position
    - The current position and both points must form a circle arc.
     - If the arc radius is not within the range of 0.5-10 meters, it raises an
Exception
    - x1/x2, y1/y2, z1/z2 can't both be between -20-20 at the same time, but
can both be 0.
     Arguments:
```

```
x1: -500-500
                                                                                             x1: -500-500
       x2: -500-500
                                                                                             y1: -500-500
       y1: -500-500
                                                                                             z1: -500-500
       y2: -500-500
                                                                                              x2: -500-500
       z1: -500-500
                                                                                             y2: -500-500
       z2: -500-500
                                                                                             z2: -500-500
       speed: 10-60
                                                                                             speed: 10-60
                                                                                             mid: 1-8
 curve xyz speed mid(self, x1: int, y1: int, z1: int, x2: int, y2: int, z2: int,
speed: int, mid: int)
                                                                                         disable_mission_pads(self)
    Fly to x2 y2 z2 in a curve via x2 y2 z2. Speed defines the traveling speed
                                                                                           Disable mission pad detection
in cm/s.
                                                                                         emergency(self)
    - Both points are relative to the mission pad with id mid.
                                                                                           Stop all motors immediately.
    - The current position and both points must form a circle arc.
     - If the arc radius is not within the range of 0.5-10 meters, it raises an
Exception
                                                                                         enable_mission_pads(self)
    - x1/x2, y1/y2, z1/z2 can't both be between -20-20 at the same time, but
                                                                                           Enable mission pad detection
can both be 0.
                                                                                       | end(self)
    Arguments:
                                                                                           Call this method when you want to end the tello object
```

```
X-Axis Acceleration
 flip(self, direction: str)
                                                                                            Returns:
   Do a flip maneuver.
                                                                                              float: acceleration
   Users would normally call one of the flip_x functions instead.
   Arguments:
                                                                                        | get_acceleration_y(self) -> float
     direction: I (left), r (right), f (forward) or b (back)
                                                                                            Y-Axis Acceleration
                                                                                            Returns:
                                                                                              float: acceleration
flip_back(self)
   Flip backwards.
                                                                                        | get_acceleration_z(self) -> float
 flip_forward(self)
                                                                                            Z-Axis Acceleration
   Flip forward.
                                                                                            Returns:
                                                                                              float: acceleration
 flip_left(self)
   Flip to the left.
                                                                                        | get_barometer(self) -> int
                                                                                            Get current barometer measurement in cm
| flip_right(self)
                                                                                           This resembles the absolute height.
                                                                                            See https://en.wikipedia.org/wiki/Altimeter
   Flip to the right.
                                                                                            Returns:
 get_acceleration_x(self) -> float
                                                                                              int: barometer measurement in cm
```

```
get battery(self) -> int
  Get current battery percentage
  Returns:
     int: 0-100
get_current_state(self) -> dict
  Call this function to attain the state of the Tello. Returns a dict
  with all fields.
  Internal method, you normally wouldn't call this yourself.
get_distance_tof(self) -> int
  Get current distance value from TOF in cm
  Returns:
     int: TOF distance in cm
get_flight_time(self) -> int
  Get the time the motors have been active in seconds
  Returns:
     int: flight time in s
```

```
| get frame read(self) -> 'BackgroundFrameRead'
    Get the BackgroundFrameRead object from the camera drone. Then,
you just need to call
    backgroundFrameRead.frame to get the actual frame received by the
drone.
    Returns:
      BackgroundFrameRead
 get_height(self) -> int
    Get current height in cm
     Returns:
      int: height in cm
| get_highest_temperature(self) -> int
    Get highest temperature
     Returns:
      float: highest temperature (°C)
| get_lowest_temperature(self) -> int
    Get lowest temperature
```

```
Returns:
    int: lowest temperature (°C)
                                                                                     | get mission pad id(self) -> int
                                                                                         Mission pad ID of the currently detected mission pad
                                                                                         Only available on Tello EDUs after calling enable_mission_pads
get_mission_pad_distance_x(self) -> int
  X distance to current mission pad
                                                                                          Returns:
  Only available on Tello EDUs after calling enable mission pads
                                                                                           int: -1 if none is detected, else 1-8
  Returns:
                                                                                     | get_own_udp_object(self)
    int: distance in cm
                                                                                         Get own object from the global drones dict. This object is filled
get_mission_pad_distance_y(self) -> int
                                                                                         with responses and state information by the receiver threads.
  Y distance to current mission pad
                                                                                         Internal method, you normally wouldn't call this yourself.
  Only available on Tello EDUs after calling enable mission pads
                                                                                     | get_pitch(self) -> int
  Returns:
                                                                                         Get pitch in degree
    int: distance in cm
                                                                                          Returns:
get_mission_pad_distance_z(self) -> int
                                                                                           int: pitch in degree
  Z distance to current mission pad
                                                                                     | get_roll(self) -> int
  Only available on Tello EDUs after calling enable mission pads
                                                                                         Get roll in degree
  Returns:
    int: distance in cm
                                                                                          Returns:
```

```
int: roll in degree
                                                                                    | get_temperature(self) -> float
get_speed_x(self) -> int
                                                                                        Get average temperature
  X-Axis Speed
                                                                                        Returns:
  Returns:
                                                                                          float: average temperature (°C)
    int: speed
                                                                                    | get_udp_video_address(self) -> str
                                                                                        Internal method, you normally wouldn't call this youself.
get_speed_y(self) -> int
  Y-Axis Speed
                                                                                    | get_video_capture(self)
  Returns:
    int: speed
                                                                                        Get the VideoCapture object from the camera drone.
                                                                                        Users usually want to use get_frame_read instead.
get_speed_z(self) -> int
                                                                                        Returns:
  Z-Axis Speed
                                                                                          VideoCapture
  Returns:
                                                                                    | get_yaw(self) -> int
    int: speed
                                                                                        Get yaw in degree
get_state_field(self, key: str)
                                                                                        Returns:
  Get a specific sate field by name.
                                                                                          int: yaw in degree
  Internal method, you normally wouldn't call this yourself.
```

```
go xyz speed(self, x: int, y: int, z: int, speed: int)
   Fly to x y z relative to the current position.
   Speed defines the traveling speed in cm/s.
   Arguments:
      x: -500-500
      y: -500-500
      z: -500-500
      speed: 10-100
 go_xyz_speed_mid(self, x: int, y: int, z: int, speed: int, mid: int)
   Fly to x y z relative to the mission pad with id mid.
   Speed defines the traveling speed in cm/s.
   Arguments:
      x: -500-500
      y: -500-500
      z: -500-500
      speed: 10-100
      mid: 1-8
```

```
go_xyz_speed_yaw_mid(self, x: int, y: int, z: int, speed: int, yaw: int, mid1:
int, mid2: int)
     Fly to x y z relative to mid1.
    Then fly to 0 0 z over mid2 and rotate to yaw relative to mid2's rotation.
     Speed defines the traveling speed in cm/s.
     Arguments:
       x: -500-500
       y: -500-500
       z: -500-500
       speed: 10-100
       yaw: -360-360
       mid1: 1-8
       mid2: 1-8
 | initiate_throw_takeoff(self)
     Allows you to take off by throwing your drone within 5 seconds of this
command
 | land(self)
    Automatic landing.
```

```
move(self, direction: str, x: int)
                                                                                           x: 20-500
  Tello fly up, down, left, right, forward or back with distance x cm.
  Users would normally call one of the move_x functions instead.
                                                                                     | move_left(self, x: int)
                                                                                         Fly x cm left.
  Arguments:
    direction: up, down, left, right, forward or back
                                                                                         Arguments:
    x: 20-500
                                                                                           x: 20-500
move_back(self, x: int)
                                                                                      | move_right(self, x: int)
  Fly x cm backwards.
                                                                                         Fly x cm right.
  Arguments:
                                                                                         Arguments:
    x: 20-500
                                                                                           x: 20-500
move_down(self, x: int)
                                                                                      | move_up(self, x: int)
  Fly x cm down.
                                                                                         Fly x cm up.
  Arguments:
                                                                                         Arguments:
    x: 20-500
                                                                                           x: 20-500
move_forward(self, x: int)
                                                                                     parse_state(state: str) -> Dict[str, Union[int, float, str]]
  Fly x cm forward.
                                                                                         Parse a state line to a dictionary
  Arguments:
                                                                                         Internal method, you normally wouldn't call this yourself.
```

```
Using get_battery is usually faster
query active(self) -> str
                                                                                          Returns:
                                                                                            int: 0-100 in %
  Get the active status
  Returns:
                                                                                      | query_distance_tof(self) -> float
    str
                                                                                          Get distance value from TOF (cm)
query_attitude(self) -> dict
                                                                                          Using get_distance_tof is usually faster.
  Query IMU attitude data.
                                                                                          Returns:
                                                                                            float: 30-1000
  Using get_pitch, get_roll and get_yaw is usually faster.
  Returns:
                                                                                      | query_flight_time(self) -> int
    {'pitch': int, 'roll': int, 'yaw': int}
                                                                                          Query current fly time (s).
query_barometer(self) -> int
                                                                                          Using get_flight_time is usually faster.
  Get barometer value (cm)
                                                                                          Returns:
                                                                                            int: Seconds elapsed during flight.
  Using get_barometer is usually faster.
  Returns:
    int: 0-100
                                                                                      | query_height(self) -> int
                                                                                          Get height in cm via a query command.
query_battery(self) -> int
                                                                                          Using get_height is usually faster
  Get current battery percentage via a query command
                                                                                          Returns:
```

```
int: 0-3000
                                                                                        Returns:
                                                                                          int: 0-90
query_sdk_version(self) -> str
                                                                                    | query_wifi_signal_noise_ratio(self) -> str
  Get SDK Version
  Returns:
                                                                                        Get Wi-Fi SNR
    str: SDK Version
                                                                                        Returns:
                                                                                          str: snr
query_serial_number(self) -> str
  Get Serial Number
                                                                                    | raise_result_error(self, command: str, response: str) -> bool
                                                                                        Used to reaise an error after an unsuccessful command
  Returns:
    str: Serial Number
                                                                                        Internal method, you normally wouldn't call this yourself.
query_speed(self) -> int
                                                                                    | reboot(self)
  Query speed setting (cm/s)
                                                                                        Reboots the drone
  Returns:
                                                                                    | rotate_clockwise(self, x: int)
    int: 1-100
                                                                                        Rotate x degree clockwise.
query_temperature(self) -> int
                                                                                        Arguments:
  Query temperature (°C).
                                                                                          x: 1-360
  Using get_temperature is usually faster.
```

```
rotate counter clockwise(self, x: int)
                                                                                 Talent
  Rotate x degree counter-clockwise.
  Arguments:
                                                                                  led red.
    x: 1-3600
                                                                                   send keepalive(self)
send command with return(self, command: str, timeout: int = 7) -> str
  Send command to Tello and wait for its response.
  Internal method, you normally wouldn't call this yourself.
  Return:
    bool/str: str with response text on success, False when unsuccessfull.
                                                                                      Arguments:
send command without return(self, command: str)
  Send command to Tello without expecting a response.
  Internal method, you normally wouldn't call this yourself.
send control command(self, command: str, timeout: int = 7) -> bool
  Send control command to Tello and wait for its response.
  Internal method, you normally wouldn't call this yourself.
send expansion command(self, expansion cmd: str)
```

```
Sends a command to the ESP32 expansion board connected to a Tello
    Use e.g. tello.send_expansion_command("led 255 0 0") to turn the top
    Send a keepalive packet to prevent the drone from landing after 15s
 send rc control(self, left right velocity: int, forward backward velocity:
int, up down velocity: int, yaw velocity: int)
    Send RC control via four channels. Command is sent every
self.TIME BTW RC CONTROL COMMANDS seconds.
      left right velocity: -100~100 (left/right)
      forward backward velocity: -100~100 (forward/backward)
      up down velocity: -100~100 (up/down)
      yaw_velocity: -100~100 (yaw)
 send read command(self, command: str) -> str
    Send given command to Tello and wait for its response.
    Internal method, you normally wouldn't call this yourself.
```

```
While you can use this command to reconfigure the Tello this library
                                                                                  currently does not support
send read command float(self, command: str) -> float
                                                                                       non-default ports (TODO!)
  Send given command to Tello and wait for its response.
  Parses the response to an integer
                                                                                   | set_speed(self, x: int)
  Internal method, you normally wouldn't call this yourself.
                                                                                       Set speed to x cm/s.
                                                                                       Arguments:
send read command int(self, command: str) -> int
                                                                                         x: 10-100
  Send given command to Tello and wait for its response.
  Parses the response to an integer
                                                                                    set_video_bitrate(self, bitrate: int)
  Internal method, you normally wouldn't call this yourself.
                                                                                       Sets the bitrate of the video stream
                                                                                       Use one of the following for the bitrate argument:
set mission pad detection direction(self, x)
                                                                                         Tello.BITRATE AUTO
  Set mission pad detection direction. enable_mission_pads needs to be
                                                                                         Tello.BITRATE 1MBPS
  called first. When detecting both directions detecting frequency is 10Hz,
                                                                                         Tello.BITRATE_2MBPS
  otherwise the detection frequency is 20Hz.
                                                                                         Tello.BITRATE 3MBPS
  Arguments:
                                                                                         Tello.BITRATE_4MBPS
    x: 0 downwards only, 1 forwards only, 2 both directions
                                                                                         Tello.BITRATE_5MBPS
set_network_ports(self, state_packet_port: int, video_stream_port: int)
                                                                                   set_video_direction(self, direction: int)
  Sets the ports for state packets and video streaming
```

```
Selects one of the two cameras for video streaming
                                                                                   | set wifi credentials(self, ssid: str, password: str)
  The forward camera is the regular 1080x720 color camera
                                                                                       Set the Wi-Fi SSID and password. The Tello will reboot afterwords.
  The downward camera is a grey-only 320x240 IR-sensitive camera
  Use one of the following for the direction argument:
                                                                                    streamoff(self)
    Tello.CAMERA FORWARD
                                                                                       Turn off video streaming.
    Tello.CAMERA DOWNWARD
                                                                                   | streamon(self)
set video fps(self, fps: str)
                                                                                      Turn on video streaming. Use 'tello.get frame read' afterwards.
  Sets the frames per second of the video stream
                                                                                       Video Streaming is supported on all tellos when in AP mode (i.e.
  Use one of the following for the fps argument:
                                                                                       when your computer is connected to Tello-XXXXXX WiFi ntwork).
    Tello.FPS 5
                                                                                       Currently Tello EDUs do not support video streaming while connected
                                                                                       to a WiFi-network.
    Tello.FPS 15
    Tello.FPS 30
                                                                                       !!! Note:
set_video_resolution(self, resolution: str)
                                                                                         If the response is 'Unknown command' you have to update the Tello
                                                                                         firmware. This can be done using the official Tello app.
  Sets the resolution of the video stream
  Use one of the following for the resolution argument:
                                                                                   | takeoff(self)
    Tello.RESOLUTION 480P
    Tello.RESOLUTION 720P
                                                                                       Automatic takeoff.
```

turn_motor_off(self)	
Turns off the motor cooling mode	dict
	dictionary for instance variables (if defined)
turn_motor_on(self)	
Turn on motors without flying (mainly for cooling)	weakref
I	list of weak references to the object (if defined)
udp_response_receiver()	I
Setup drone UDP receiver. This method listens for responses of Tello.	
Must be run from a background thread in order to not block the main thread.	Data and other attributes defined here:
Internal method, you normally wouldn't call this yourself.	BITRATE_1MBPS = 1
udp_state_receiver() Setup state UDP receiver. This method listens for state information from	 BITRATE_2MBPS = 2
Tello. Must be run from a background thread in order to not blockthe main thread.	BITRATE_3MBPS = 3
Internal method, you normally wouldn't call this yourself.	BITRATE_4MBPS = 4
Data descriptors defined here:	 BITRATE_5MBPS = 5
	 BITRATE_5MBPS = 5

```
BITRATE_AUTO = 0
                                                                                | HANDLER = <StreamHandler <stderr> (NOTSET)>
| CAMERA_DOWNWARD = 1
                                                                                | INT_STATE_FIELDS = ('mid', 'x', 'y', 'z', 'pitch', 'roll', 'yaw', 'vgx...
                                                                                | LOGGER = <Logger djitellopy (INFO)>
 CAMERA_FORWARD = 0
                                                                                | RESOLUTION_480P = 'low'
 CONTROL_UDP_PORT = 8889
| FLOAT_STATE_FIELDS = ('baro', 'agx', 'agy', 'agz')
                                                                                | RESOLUTION_720P = 'high'
| FORMATTER = < logging. Formatter object>
                                                                                | RESPONSE_TIMEOUT = 7
| FPS_15 = 'middle'
                                                                                | RETRY_COUNT = 3
| FPS_30 = 'high'
                                                                                | STATE_UDP_PORT = 8890
| FPS_5 = 'low'
                                                                                | TAKEOFF_TIMEOUT = 20
                                                                                | TELLO_IP = '192.168.10.1'
 FRAME_GRAB_TIMEOUT = 3
```

```
| TIME_BTW_COMMANDS = 0.1
| TIME_BTW_RC_CONTROL_COMMANDS = 0.001
| VS_UDP_IP = '0.0.0.0'
| VS_UDP_PORT = 11111
  __annotations__ = {'background_frame_read':
typing.Optional[ForwardRef...
 | background_frame_read = None
| cap = None
| is_flying = False
| state_field_converters = {'agx': <class 'float'>, 'agy': <class 'float...
stream_on = False
```

1_tello soket açma import threading import socket import sys import time import platform host="" port=9000 locaddr=(host,port) #create UDP socket sock=socket.socket(socket.AF_INET,socket.SOCK_DGRAM) sock.bind(locaddr) tello_address=("192.168.10.1","8889") sock.sendto(b'command',locaddr) sock.sendto(b"takeoff", locaddr)

```
sock.sendto(b"left 25", locaddr)
sock.sendto(b"backward 25", locaddr)
sock.sendto(b"right 25", locaddr)
sock.sendto(b"forward 25", locaddr)
sock.sendto(b"battery?", locaddr)
response,ip=socket.recvform(1024)
print(response)
sock.sendto(b"land", locaddr)
sock.close()
```

2_tello_bilgi_cekme import time, cv2 from threading import Thread from djitellopy import Tello tello = Tello() tello.connect() #kaldırmadan motor çalışsın tello.turn_motor_on() #barometre bilgisini al print("Barometre bilgisi", tello.get barometer()) #5 sn motor çalışsın time.sleep(5) print("Speed bilgisi", tello.get_speed_x()) print("Battery bilgisi", tello.get_battery())

print("Flight time bilgisi", tello.get_flight_time())

```
print("Snr signal noise ratio bilgisi", tello.query_wifi_signal_noise_ratio())
print("TOF time of flight distance in cm uzaklık bilgisi",
tello.get_distance_tof())

#kaldırmadan motor kapatsın
tello.turn_motor_off()
```

3_tello- ilk kalkış 4_tello Picture from djitellopy import Tello import cv2 tello = Tello() from djitellopy import Tello tello.connect() tello = Tello() tello.takeoff() tello.connect() #tello.move_left(100) tello.streamon() frame_read = tello.get_frame_read() tello.rotate_clockwise(100) tello.move_forward(100) 111111 tello.takeoff() tello.move_back(30) cv2.imwrite("picture.png", frame_read.frame) tello.flip_back() tello.flip_right() 111111 tello.land()

tello.land()

```
5_tello video
                                                                                      while keepRecording:
import time, cv2
                                                                                        video.write(frame read.frame)
from threading import Thread
                                                                                        time.sleep(1/30)
from djitellopy import Tello
                                                                                      video.release()
tello = Tello()
tello.connect()
                                                                                    # we need to run the recorder in a seperate thread, otherwise blocking
                                                                                    options- would prevent frames from getting added to the video
tello.set video direction(Tello.CAMERA FORWARD)
#tello.set video direction(Tello.CAMERA DOWNWARD)
                                                                                    recorder = Thread(target=videoRecorder)
                                                                                    recorder.start()
keepRecording = True
tello.streamon()
                                                                                    print(tello.get battery())
frame_read = tello.get_frame_read()
                                                                                    tello.takeoff()
                                                                                    tello.move_up(30)
def videoRecorder():
                                                                                    tello.rotate counter clockwise(360)
  # create a VideoWrite object, recoring to ./video.avi
                                                                                    tello.land()
  height, width, _ = frame_read.frame.shape
  video = cv2.VideoWriter('video.avi', cv2.VideoWriter fourcc(*'XVID'), 30,
                                                                                    keepRecording = False
(width, height))
                                                                                    recorder.join()
```

```
6_panorama
                                                                                         cv2.imwrite(f'Panorama-full-clockwise_{time.time()}.jpg', img)
panoramaModule
                                                                                         time.sleep(1)
#Module with individual panorama types defined. You can just import it and
                                                                                         tello.rotate_clockwise(80)
use hovever you like
                                                                                       img = tello.get frame read().frame
#It will save photos from Tello inside folder that's in. You can change this by
                                                                                       cv2.imwrite(f'Panorama-full-clockwise_{time.time()}.jpg', img)
changing path inside every function.
                                                                                       time.sleep(1)
from djitellopy import Tello
                                                                                       tello.rotate clockwise(40)
import cv2
import time
                                                                                       tello.streamoff()
global img
                                                                                     def panorama_half_clockwise(tello_name):
                                                                                       tello = tello name
def panorama_full_clockwise(tello_name):
                                                                                       tello.streamoff()
  tello = tello_name
                                                                                       tello.streamon()
  tello.streamoff()
  tello.streamon()
                                                                                       tello.rotate_counter_clockwise(90)
  for i in range(4):
                                                                                       for i in range(3):
    img = tello.get_frame_read().frame
```

```
cv2.imwrite(f'Panorama-full-counter-clockwise_{time.time()}.jpg', img)
    img = tello.get_frame_read().frame
    cv2.imwrite(f'Panorama-half-clockwise {time.time()}.jpg', img)
                                                                                         time.sleep(1)
                                                                                         tello.rotate_counter_clockwise(80)
    time.sleep(1)
    tello.rotate_clockwise(60)
                                                                                       img = tello.get frame read().frame
  img = tello.get_frame_read().frame
                                                                                       cv2.imwrite(f'/Panorama-full-counter-clockwise {time.time()}.jpg', img)
  cv2.imwrite(f'Panorama-half-clockwise_{time.time()}.jpg', img)
                                                                                       time.sleep(1)
  time.sleep(1)
                                                                                       tello.rotate counter clockwise(40)
  tello.rotate_counter_clockwise(90)
                                                                                       tello.streamoff()
  tello.streamoff()
                                                                                     def panorama_half_counter_clockwise(tello_name):
def panorama full counter clockwise(tello name):
                                                                                       tello = tello name
  tello = tello_name
                                                                                       tello.streamoff()
  tello.streamoff()
                                                                                       tello.streamon()
  tello.streamon()
                                                                                       tello.rotate_clockwise(90)
  for i in range(4):
    img = tello.get frame read().frame
                                                                                       for i in range(3):
```

```
img = tello.get_frame_read().frame
                                                                                 tello panorama
  cv2.imwrite(f'Panorama-half-counter-clockwise_{time.time()}.jpg', img)
  time.sleep(1)
                                                                                  #Simply import of "panoramaModule.py" and you can use each function by
                                                                                  calling it with name of the drone inside arguments.
  tello.rotate_counter_clockwise(60)
                                                                                 from djitellopy import Tello
                                                                                  import cv2
img = tello.get_frame_read().frame
                                                                                  import time
cv2.imwrite(f'Panorama_half_counter_clockwise-{time.time()}.jpg', img)
                                                                                  import panoramaModule
time.sleep(1)
tello.rotate_clockwise(90)
                                                                                 tello = Tello()
tello.streamoff()
                                                                                 tello.connect()
                                                                                  print(tello.get_battery())
                                                                                 tello.takeoff()
                                                                                 tello.move_up(100)
                                                                                  panoramaModule.panorama_half_clockwise(tello)
                                                                                 tello.land()
```

```
7_tello tuş kontrol
                                                                                          w: ileri \n \
                                                                                          s: geri \n \
# simple example demonstrating how to control a Tello using your keyboard.
                                                                                          a: sola \n \
# For a more fully featured example see manual-control-pygame.py
                                                                                          d: sağa \n \
                                                                                          e: döndür \n \
# Use W, A, S, D for moving, E, Q for rotating and R, F for going up and down.
                                                                                          q: ters yöne döndür \n \
# When starting the script the Tello will takeoff, pressing ESC makes it land
                                                                                          r: yukarı \n \
# and the script exit.
                                                                                          f: aşağı \n \
                                                                                          t: takla \n \ ")
from djitellopy import Tello
import cv2, math, time
                                                                                       while True:
                                                                                         # In reality you want to display frames in a seperate thread. Otherwise
tello = Tello()
                                                                                         # they will freeze while the drone moves.
tello.connect()
                                                                                         img = frame read.frame
#tello.set_video_direction(Tello.CAMERA_FORWARD)
                                                                                         cv2.imshow("drone", img)
tello.streamon()
                                                                                         key=input("Komut girin ve enter'a basın 'l,w,s,a,d,e,q,r,f': ")
frame read = tello.get frame read()
                                                                                       # key = cv2.waitKey(1) and 0xff
                                                                                         if key == "I": # land
#tello.takeoff()
                                                                                           print("I ile yere in ve kapan")
print("Komutlar: I : yere in ve kapat \n \
                                                                                            break
```

```
elif key == 'w':
  print("w ile 30 cm ileri")
  tello.move_forward(30)
elif key == 's':
  print("s ile 30 cm geri")
  tello.move_back(30)
elif key == 'a':
  print("a ile 30 cm sola")
  tello.move_left(30)
elif key == 'd':
  print("d ile 30 cm sağa")
  tello.move_right(30)
elif key == 'e':
  print("e ile 30 cm rotate")
  tello.rotate_clockwise(30)
elif key == 'q':
  print("q ile 30 cm rotate")
  tello.rotate_counter_clockwise(30)
elif key == 'r':
  print("r ile 30 cm yukarı")
```

```
tello.move_up(30)
  elif key == 'f':
    print("file 30 cm aşağı")
    tello.move_down(30)
  elif key == 't':
    print("t ile takla")
    tello.flip("b")
#tello.land()
```

```
8_tello mission pads
from djitellopy import Tello
# create and connect
tello = Tello()
tello.connect()
print(tello.get battery())
# configure drone
tello.set video direction(Tello.CAMERA DOWNWARD)
tello.enable_mission_pads()
tello.set mission pad detection direction(2) # forward detection only
#tello.takeoff()
pad = tello.get mission pad id()
print("padi
gördüm",pad,"x:",tello.get mission pad distance x(),"y:",tello.get mission
pad_distance_y(),"z:",tello.get_mission_pad_distance_z())
```

```
# detect and react to pads until we see pad #1
n=0
while pad!=1:
  print("padi
gördüm",pad,"x:",tello.get_mission_pad_distance_x(),"y:",tello.get_mission_
pad_distance_y(),"z:",tello.get_mission_pad_distance_z())
  if pad!=-1:
   # tello.move_back(30)
   # tello.rotate clockwise(90)
   pass
  n+=1
  print("dönüyorum",n)
  pad = tello.get_mission_pad_id()
while pad != 1:
  if pad == 2:
    print("padi
gördüm",pad,"x:",tello.get mission pad distance x(),"y:",tello.get mission
pad_distance_y(),"z:",tello.get_mission_pad_distance_z())
    tello.move back(30)
    tello.rotate clockwise(90)
```

```
print("burdayım", pad)
  n+=1
  print("dönüyorum",n)
  pad = tello.get_mission_pad_id()
  print("padi
gördüm",pad,"x:",tello.get_mission_pad_distance_x(),"y:",tello.get_mission_
pad_distance_y(),"z:",tello.get_mission_pad_distance_z())
111111
111111
  if pad == 4:
    tello.move_up(30)
    tello.flip_forward()
    print("burdayım 2")
111111
# graceful termination
tello.disable_mission_pads()
#tello.land()
print("tamam 1 i gördüm")
tello.end()
```