from sense_hat import SenseHat

sense = SenseHat()

red = (255, 0, 0)
sense.clear(red) # passing in an RGB tuple

sleep(1)
sense.clear(255, 255, 255) # passing in r, g and b values of a colour

17. Get Gyroscope Reading

from sense_hat import SenseHat
sense = SenseHat()

 gyro_only = sense.get_gyroscope()

print("p: {pitch}, r: {roll}, y: {yaw}".format(**gyro_only))

18. Get Acceleration

from sense_hat import SenseHat

sense = SenseHat()

 accel_only = sense.get_accelerometer()

print("p: {pitch}, r: {roll}, y: {yaw}".format(**accel_only))

5. Rotate the LEDs

from sense_hat import SenseHat

sense = SenseHat()

sense.set_rotation(180)

6. Flip the LED Horizontally

from sense_hat import SenseHat

sense = SenseHat()
sense.flip_h()
Usage: Code reference for the Sense HAT. Import the module and instantiate an object:

```python
from sense_hat import SenseHat
sense = SenseHat()
```

1. Set LED Pixels to Create an Image

```python
from sense_hat import SenseHat
sense = SenseHat()
X = [255, 0, 0]  # Red
O = [255, 255, 255]  # White

question_mark = [
  0, 0, O, O, X, X, 0, 0,
  0, O, X, 0, X, 0, 0, 0,
  0, O, O, X, X, 0, 0, 0,
  0, O, O, O, X, O, 0, 0,
  0, O, O, O, O, O, 0, 0,
  0, 0, 0, 0, O, X, 0, 0,
  0, 0, O, X, 0, 0, X, 0,
  0, 0, O, X, 0, 0, O, O,
  0, 0, O, X, O, X, 0, 0,
  0, 0, O, X, 0, 0, 0, 0
]

sense.set_pixels(question_mark)
```

2. Load an Image

```python
from sense_hat import SenseHat
sense = SenseHat()

sense.load_image("space_invader.png")
```

8. Scroll a Message

```python
from sense_hat import SenseHat
sense = SenseHat()

scroll_speed, back Colour = [255, 0, 0]

sense.show_message("One small step for Pi!",
text_colour=[255, 0, 0])
```

9. Show a Single Letter

```python
import time
from sense_hat import SenseHat

sense = SenseHat()

for i in reversed(range(0,10)):
  sense.show_letter(str(i))
  time.sleep(1)
```

10. Get the Humidity Reading

```python
from sense_hat import SenseHat

sense = SenseHat()

humidity = sense.get_humidity()

print("Humidity: %s %rh" % humidity)
```

11. Get the Current Temperature

```python
from sense_hat import SenseHat

sense = SenseHat()

temp = sense.get_temperature()

print("Temperature: %s C" % temp)
```

12. Get the Current Pressure

```python
from sense_hat import SenseHat

sense = SenseHat()

pressure = sense.get_pressure()

print("Pressure: %s Millibars" % pressure)
```

13. Get Orientation in Radians

```python
from sense_hat import SenseHat

sense = SenseHat()

orientation_rad = sense.get_orientation_radians()

print("p: {pitch}, r: {roll}, y: {yaw}".format(**orientation_rad))
```

14. Get Orientation in Degrees

```python
from sense_hat import SenseHat

sense = SenseHat()

orientation = sense.get_orientation_degrees()

print("p: {pitch}, r: {roll}, y: {yaw}".format(**orientation))
```

15. Get Orientation

```python
from sense_hat import SenseHat

sense = SenseHat()

orientation = sense.get_orientation()

print("p: {pitch}, r: {roll}, y: {yaw}".format(**orientation))
```

16. Get Compass Reading

```python
from sense_hat import SenseHat

sense = SenseHat()

north = sense.get_compass()

print("North: %s" % north)
```

Note:
Some of the above lines of code are underlined, this indicates that the code is written on one single line but has been edited to fit the publication.