#Import the libraries

from sense\_hat import SenseHat

from time import sleep

#Set up the Sense HAT

sense = SenseHat()

sense.set\_rotation(270, False)

#Set up the colour sensor

sense.color.gain = 60 # Set the sensitivity of the sensor

sense.color.integration\_cycles = 64 # The interval at which the reading will be taken

#Add colour variables and image

a = (255, 255, 255) # White

b = (105, 105, 105) # DimGray

c = (0, 0, 0) # Black

d = (100, 149, 237) # CornflowerBlue

s = (139, 69, 19) # SaddleBrown

t = (255, 140, 0) # DarkOrange

e = (0, 0, 205) # MediumBlue

g = (0, 191, 255) # DeepSkyBlue

q = (255, 255, 0) # Yellow

v = (255, 0, 0) # Red

m = (34, 139, 34) # ForestGreen

for i in range(5):

rgb = sense.color # get the colour from the sensor

c = (rgb.red, rgb.green, rgb.blue) # use the sensed colour

#moon

image1 = [

c, c, c, c, c, c, c, c,

c, a, c, c, c, c, c, c,

c, c, c, b, b, c, c, c,

c, c, b, b, c, c, c, c,

c, c, b, b, c, c, c, c,

c, c, c, b, b, c, a, c,

c, c, c, c, c, c, c, c,

c, c, c, c, c, c, c, c]

#black heart

image2 = [

a, a, a, a, a, a, a, a,

a, c, c, a, a, c, c, a,

c, c, c, c, c, c, c, c,

c, c, c, c, c, c, c, c,

a, c, c, c, c, c, c, a,

a, a, c, c, c, c, a, a,

a, a, a, c, c, a, a, a,

a, a, a, a, a, a, a, a]

#cross

image3 = [

a, a, a, s, s, a, a, a,

a, a, a, s, s, a, a, a,

s, s, s, s, s, s, s, s,

s, s, s, s, s, s, s, s,

a, a, a, s, s, a, a, a,

a, a, a, s, s, a, a, a,

a, a, a, s, s, a, a, a,

a, a, a, s, s, a, a, a]

#sun

image4 = [

g, g, g, g, t, q, q, q,

g, g, g, g, t, q, q, q,

g, m, m, g, g, t, q, q,

m, m, m, m, g, g, t, t,

m, s, s, m, g, g, g, g,

g, s, s, g, g, g, g, g,

g, s, s, g, g, g, g, g,

m, m, m, m, m, m, m, m]

#red heart

image5 = [

a, a, a, a, a, a, a, a,

a, v, v, a, a, v, v, a,

v, v, v, v, v, v, v, v,

v, v, v, v, v, v, v, v,

a, v, v, v, v, v, v, a,

a, a, v, v, v, v, a, a,

a, a, a, v, v, a, a, a,

a, a, a, a, a, a, a, a]

# Display the image

for i in range(6):

sense.set\_pixels(image1)

sleep(2)

sense.set\_pixels(image2)

sleep(2)

sense.set\_pixels(image3)

sleep(2)

sense.set\_pixels(image4)

sleep(2)

sense.set\_pixels(image5)

sleep(2)

x = (178, 34, 34) # choose your own red, green, blue values between 0 - 255  
sense.clear(x)