#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

Y = (255, 215, 0) # Yellow (Lion's Mane)

O = (255, 140, 0) # Orange (Lion/Leopard)

B = (0, 0, 0) # Black (Eyes/Spots)

W = (255, 255, 255) # White (Eyes/Horn)

G = (105, 105, 105) # Grey (Elephant/Rhino)

M = (139, 69, 19) # Brown (Buffalo)

Q = (34, 139, 34) # ForestGreen

D = (100, 149, 237) # CornflowerBlue

Z = (255, 20, 147) # DeepPink

l = (0, 255, 127) # SpringGreen

P = (240, 230, 140) # Khaki

E = (0, 0, 205) # MediumBlue

# Display the image

#lion

for i in range(5):

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

c = (rgb.red, rgb.green, rgb.blue)

image1 =[

Q, D, Y, O, O, O, O, Y,

Q, Q, O, Y, O, O, Y, O,

Q, Q, O, Y, Y, Y, Y, O,

Q, Q, O, B, Y, Y, B, O,

M, D, O, Y, Y, Y, Y, O,

M, D, O, Y, Z, Y, Y, O,

M, l, l, O, Y, Y, O, O,

M, l, l, l, O, O, l, l,]

# Elephant Face (8x8)

image2 = [

B, B, B, B, B, B, B, B,

B, G, G, G, B, B, B, B,

B, G, B, G, B, B, G, G,

B, G, B, B, B, G, G, G,

B, G, G, B, B, G, B, G,

B, G, G, G, G, G, G, G,

B, B, G, G, W, G, G, G,

B, B, B, B, W, G, G, G]

# Rhino Face (8x8)

image3= [

P, W, P, P, P, G, P, P,

P, W, P, P, G, G, G, P,

P, W, W, G, B, G, G, G,

P, P, W, G, G, G, G, G,

P, P, W, Z, G, G, G, G,

P, P, P, G, G, G, G, G,

P, P, P, G, G, G, G, G,

P, P, P, P, G, G, P, G,

]

# Leopard Face (8x8)

image4 = [

D, Y, D, D, D, D, Y, D,

Y, Z, Y, D, D, Y, Z, Y,

Y, Y, Y, Y, Y, Y, Y, Y,

Y, B, W, Y, Y, W, B, Y,

Y, Y, Y, Y, Y, Y, Y, Y,

D, O, O, B, B, O, O, D,

D, O, O, Z, Z, O, O, D,

D, D, O, O, O, O, D, D,

]

# Buffalo Face (8x8)

image5= [

E, E, G, E, E, G, E, E,

E, G, G, E, E, G, G, E,

G, G, M, G, G, M, G, G,

G, M, M, M, M, M, M, G,

E, M, B, M, M, B, M, E,

E, M, M, M, M, M, M, E,

E, E, M, M, M, M, E, E,

E, E, E, M, M, E, E, E,

]

for i in range(6):

sense.set\_pixels(image1)

sleep(1)

sense.set\_pixels(image2)

sleep(1)

sense.set\_pixels(image3)

sleep(1)

sense.set\_pixels(image4)

sleep(1)

sense.set\_pixels(image5)

sleep(1)

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

sense.clear(x)