4.Display picture

Learning goals: RGB matrix display local picture.
Experimental phenomena: Display the picture content on the RGB matrix.

1.Create python file

nano photo.py

We need to input content as shown below:

```
#!/usr/bin/python
from sense_hat import SenseHat
sense = SenseHat()

# Set the direction of rotation (0,90,180,270 for choice),default is 0
sense.set_rotation(180)

#clear display
sense.clear()

#Display pictures, pictures need to be placed in the same folder
sense.load_image("space_invader.png")
```

```
#!/usr/bin/python
from sense_hat import SenseHat

sense = SenseHat()

#Set the direction of rotation (0,90,180,270 for choice),default is 0
sense.set_rotation(180)

#clear display
sense.clear()
#Display pictures, pictures need to be placed in the same folder
sense.load_image("space_invader.png")
```

Please press Ctrl+O to save, press Ctrl+X to quit.

The code of the experiment, please refer to **photo.py** in the Python sample program folder.

2.Commonly function

① Clear RGB matrix
②Display local picture

```
#clear display
sense.clear()
#Display pictures, pictures need to be placed in the same folder
sense.load_image("space_invader.png")
```

3.Running program

Input the following command to running:

python photo.py

```
pi@raspberrypi:~/sense_hat $ nano photo.py
pi@raspberrypi:~/sense_hat $ python photo.py
pi@raspberrypi:~/sense_hat $
```

After running the program, you can see the contents of the space_invader.png displayed on the RGB matrix.

!Note: Images need to be in 8*8 pixel format and placed in the same folder.