6/24/24, 8:10 PM pixel.py

E:\pixel.py

```
1 from PIL import Image
2
3
   # Import an image from directory:
4
   input image = Image.open("gfg.png")
5
   # Extracting pixel map:
6
7
   pixel map = input image.load()
8
9
   # Extracting the width and height
   # of the image:
10
11
   width, height = input_image.size
12
13
   # taking half of the width:
14
   for i in range(width//2):
15
        for j in range(height):
16
17
            # getting the RGB pixel value.
18
            r, g, b, p = input_image.getpixel((i, j))
19
20
            # Apply formula of grayscale:
            grayscale = (0.299*r + 0.587*g + 0.114*b)
21
22
23
            # setting the pixel value.
24
            pixel_map[i, j] = (int(grayscale), int(grayscale), int(grayscale))
25
26
   # Saving the final output
27
   # as "grayscale.png":
   input_image.save("grayscale", format="png")
28
29
30
   # use input_image.show() to see the image on the
31
   # output screen.
32
```