In [98]:

```
from PIL import Image # Loading PIL package
```

In [99]:

```
# Load and display image file
Ara1 = Image.open('Ara.png')
```

In [100]:

```
# Displaying image
```

Ara1

Out[100]:



In [101]:

Width and hight of the image.
#That means in the above image 256 pixels in in each column and 256 pixels in ea
Aral.size

Out[101]:

(256, 256)

In [102]:

```
# Flipping image horizontally without using function

def horizontal_flipping(image):
    width, height = image.size
    pixels = image.load()

for x in range(width // 2):
    for y in range(height):
        pixel_original = pixels[x, y]
        pixel_result = pixels[width - 1 - x, y]
        pixels[x, y] = pixel_result
        pixels[width - 1 - x, y] = pixel_original

return image
```

In [103]:

```
# Printing Horizontally flipped Ara Image
horizontal_image = horizontal_flipping(Aral)
horizontal_image
```

Out[103]:



In [104]:

```
# Saving Horizontal Flipping image
#horizontal_image.save("Ara_horizontal_flipping_image.png")
```

In [105]:

```
Ara2 = Image.open('Ara.png')
```

In [106]:

```
# Flipping image Vertically without using function

def vertical_flipping(image):
    width, height = image.size
    pixels = image.load()

for x in range(width):
    for y in range(height // 2):
        pixel_original = pixels[x, y]
        pixel_result = pixels[x, height - 1 - y]
        pixels[x, y] = pixel_result
        pixels[x, height - 1 - y] = pixel_original

return image
```

In [107]:

```
# Printing vertically flipped Ara Image
vertical_image = vertical_flipping(Ara2)
vertical_image
```

Out[107]:



In [108]:

```
# Saving Vertical Flipping image
#vertical_image.save("Ara_vertical_flipping_image.png")
```

In [109]:

```
Ara3 = Image.open('Ara.png')
```

In [110]:

```
# Horizontal and Vertical flipping
horizontal_vertical_image = horizontal_flipping(vertical_flipping(Ara3))
horizontal_vertical_image
```

Out[110]:



In [112]:

Saving horizontal Vertical Flipping image
horizontal_vertical_image.save("Ara_hoorizontal_vertical_flipping_image.png")

In []:				

In []:		

```
In [ ]:
```

END