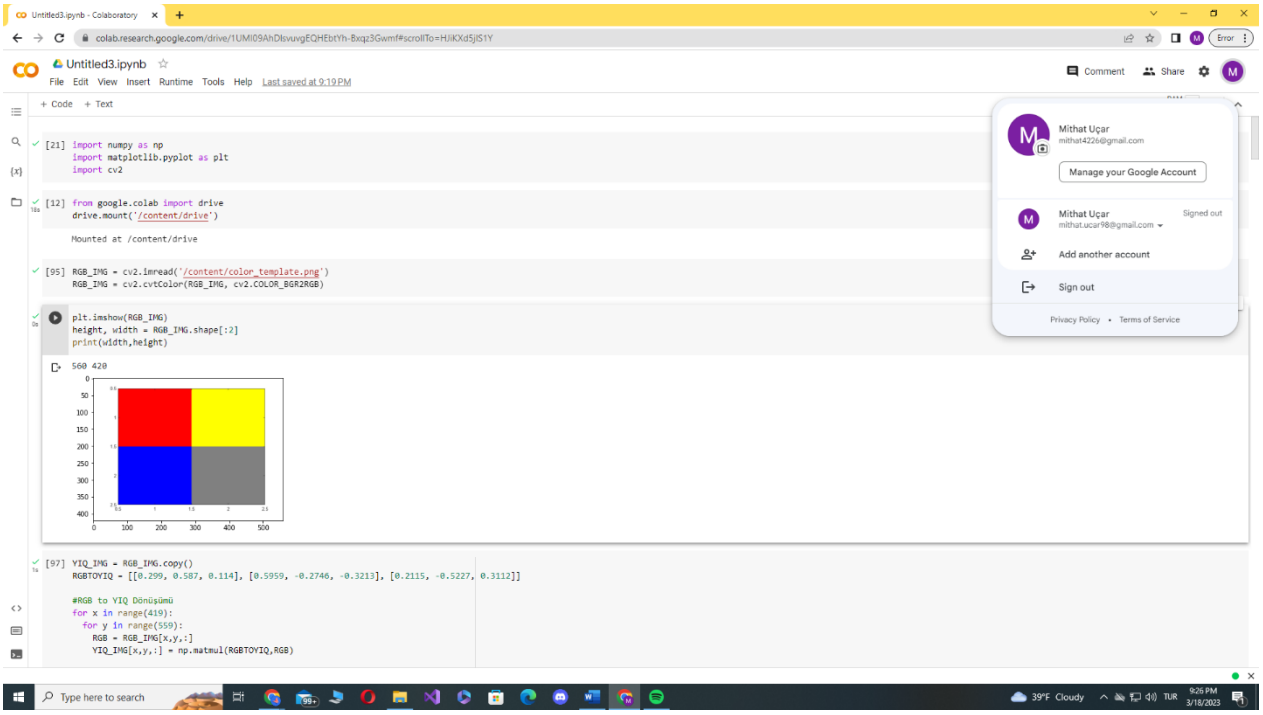
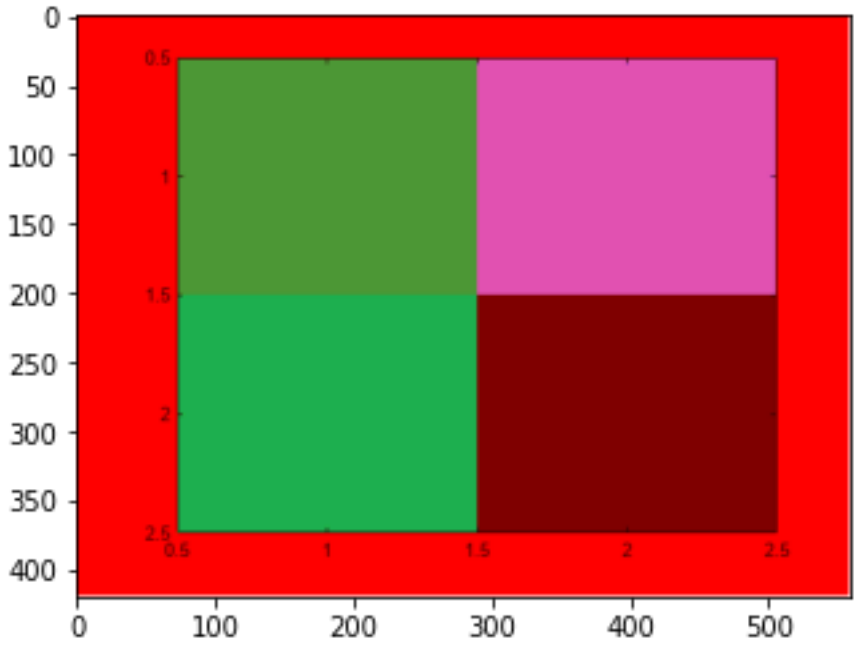
Pattern Recognition HW1



RGB YIQ DÖNÜŞÜMLERİ

-Resmin kaç pikseli olduğunu shape methoduyla buldum for döngüleriyle bütün pikselleri verilen matris kullanarak yiq dönüşümü yapıldı.



-Aynı şekilde verilen matris kullanarak rgb dönüşümü yapıldı.

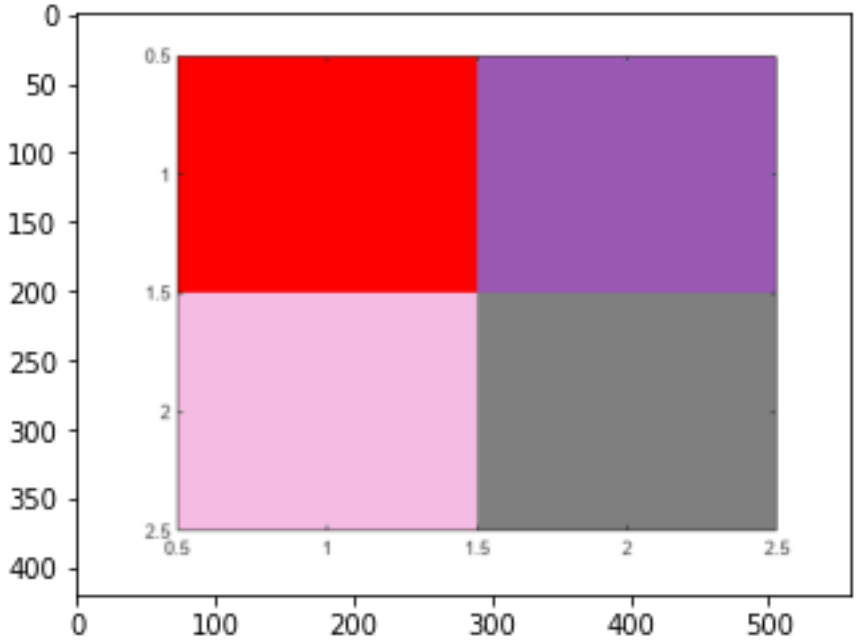
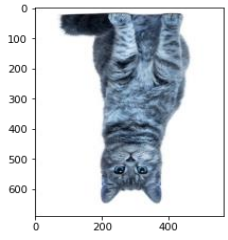
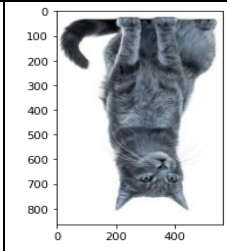
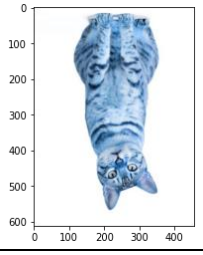
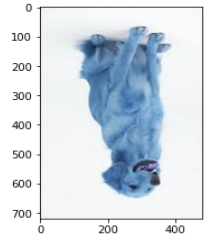
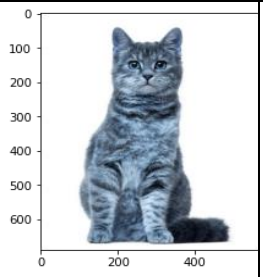
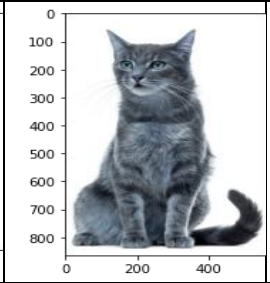
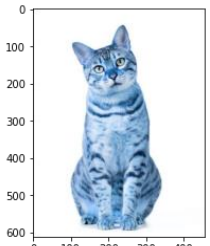
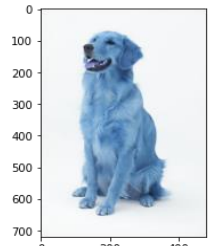
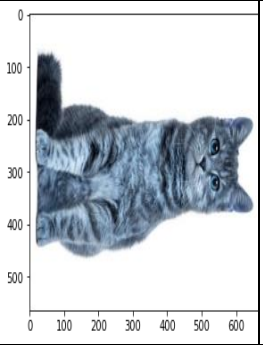
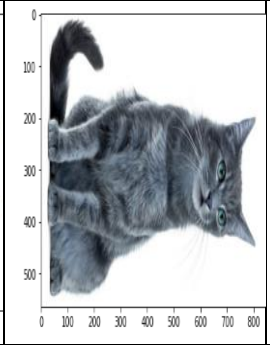
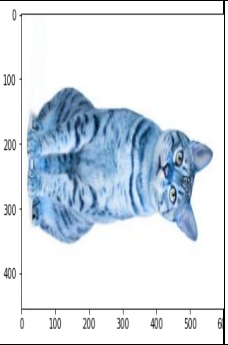
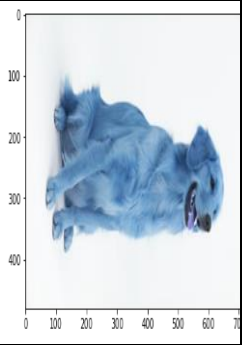
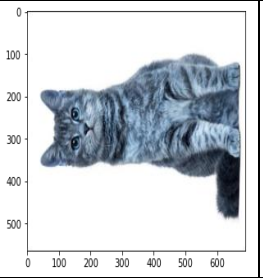
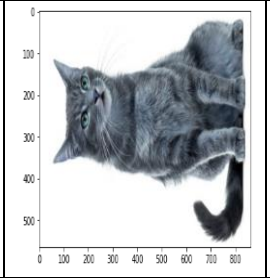
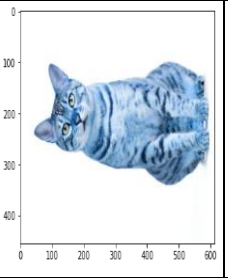
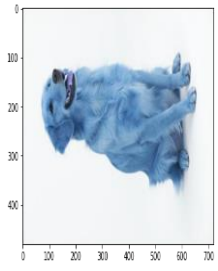


IMAGE MANIPULATIONS

-flip fonksiyonu kullanarak yatayda ve düzeyde dönüşümler yapıldı. Parametre olarak 0 dikey 1 ise yatayda çevirme işlemini yapmakta.

-rotate fonksiyonu kullanılarak saat ve saatin tersi yönlerde 90 derece dönüşümler yapıldı. Parametre olarak cv2'de tanımlanmış makrolar kullanıldı (saat yönü için ROTATE_90_CLOCKWISE tersi için ROTATE_90_COUNTERCLOCKWISE).

-resize işlemi için öncelikle resize boyutuna göre istenen width ve height piksel sayıları hesaplandı resize fonksiyonuyla aspect ratio bozmadan dönüşüm yapıldı.

				
Flip vertically				
Flip horizantally				
Rotate90 clockwise				
Rotate90 counter clockwise				
Resize