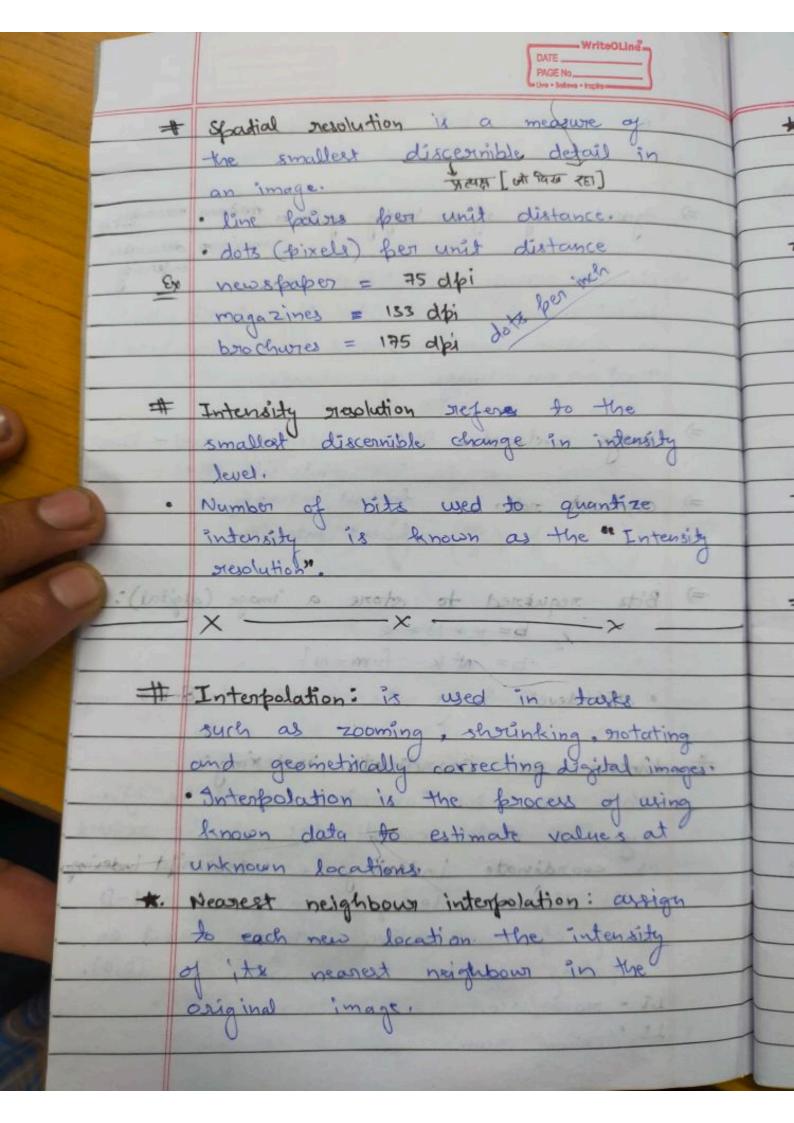
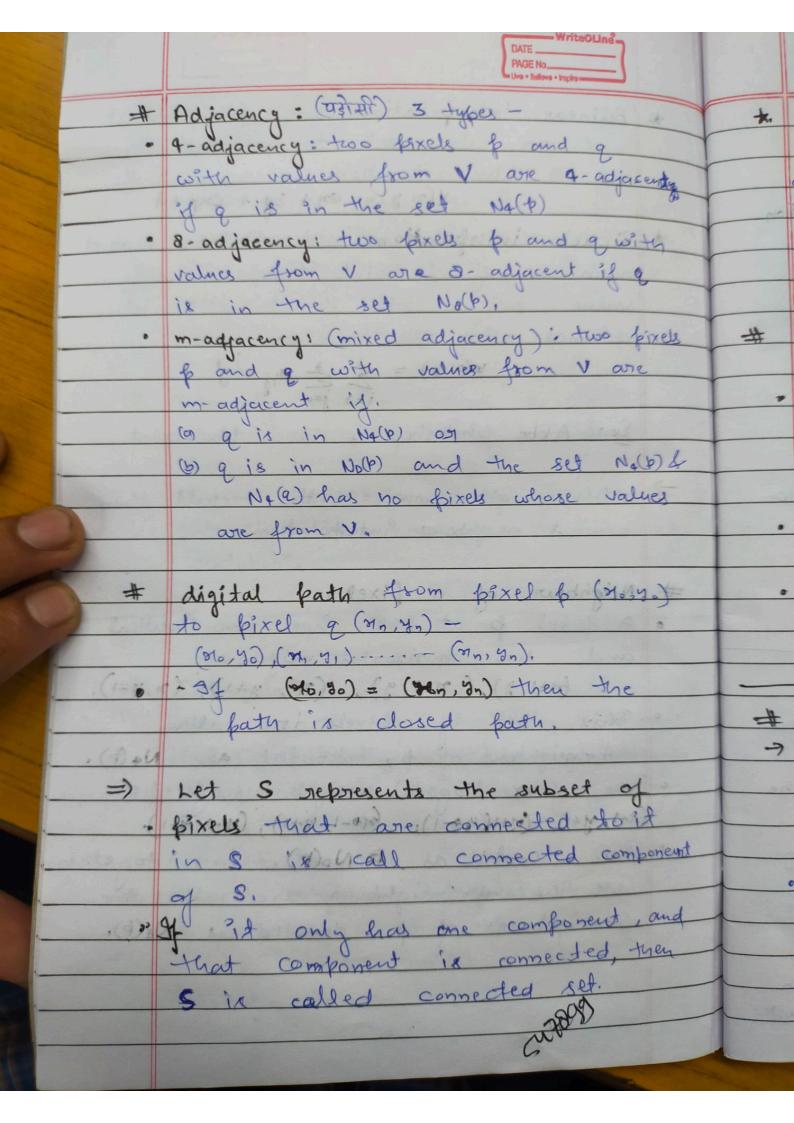
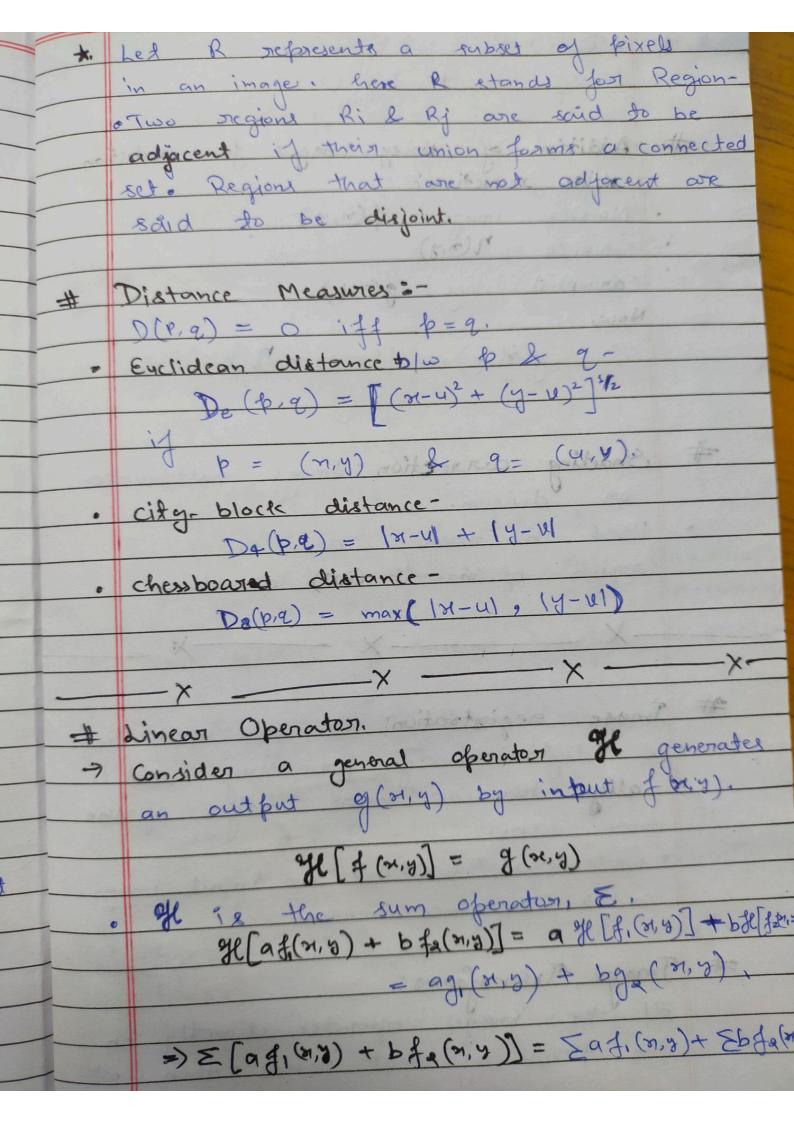


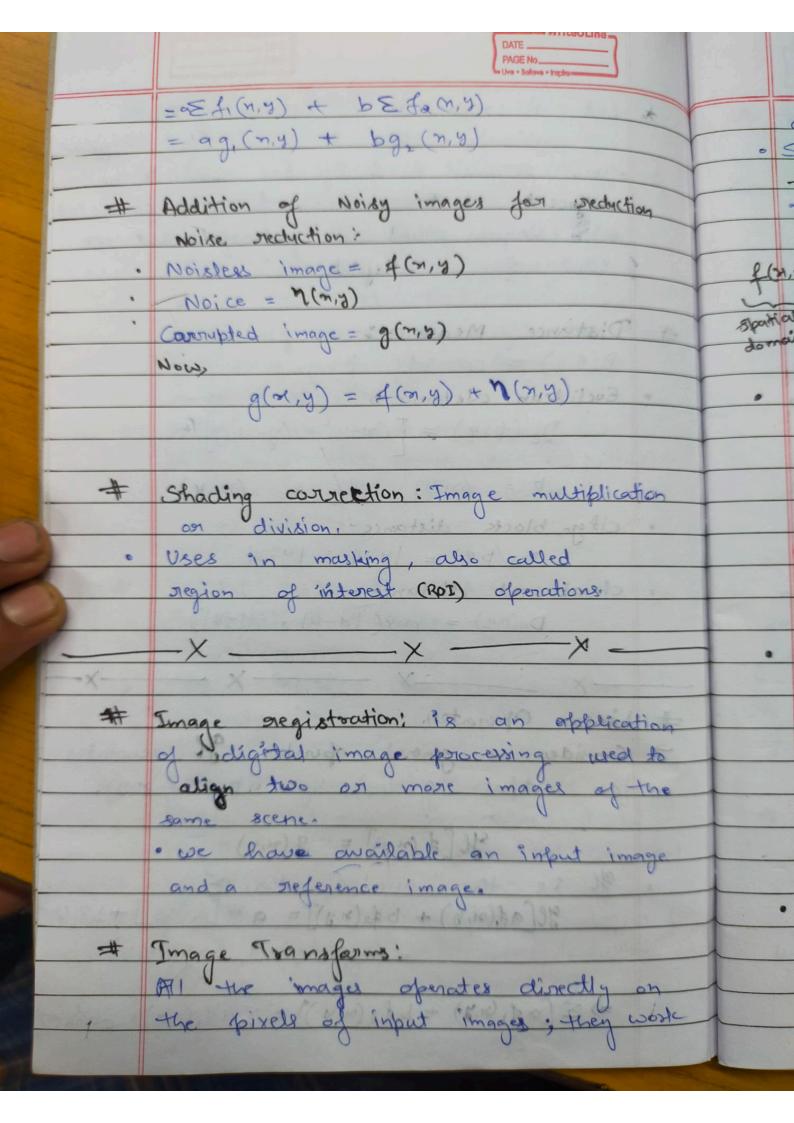
is noisles, but the noise is difficult =) dynamic range of an imaging system = movimum measurable, intensity -> dynamic sange, establishes the lowest and lighest itensity levels that a system can represent and consequently that an image can haven =) image condrast = highest intensity level - lacest linghest intensity =) contrast natio = lowest intensity =) Bits required to store a image (digital): P= W* N* K P= 102 K [:m=1) · 256-level image is called an 18-bit image # Linear us Coordinate indexing: · when the location of a pixel is given by its 2-D coordinates, it is referred as coordinate indexing or subscript indexing. while linear indexing comists of ant-D string of nonnegative integers based on computing offsets from coordinates (0,0). LL Column scan

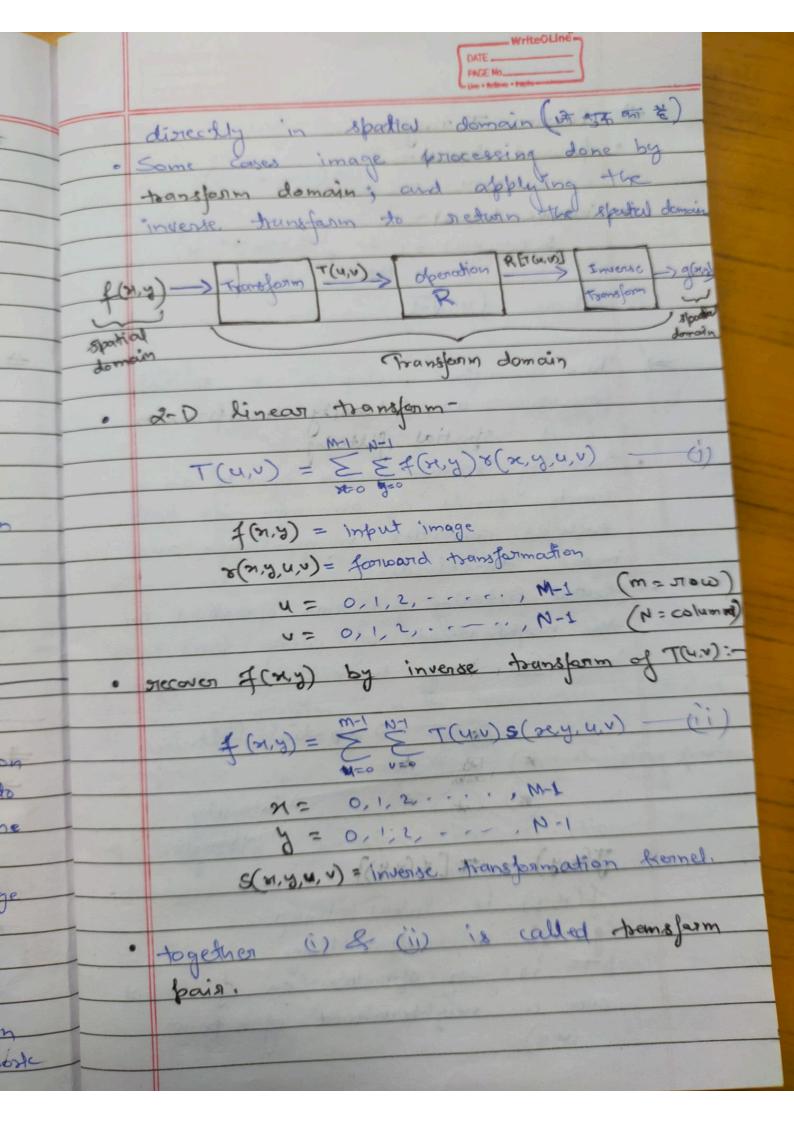


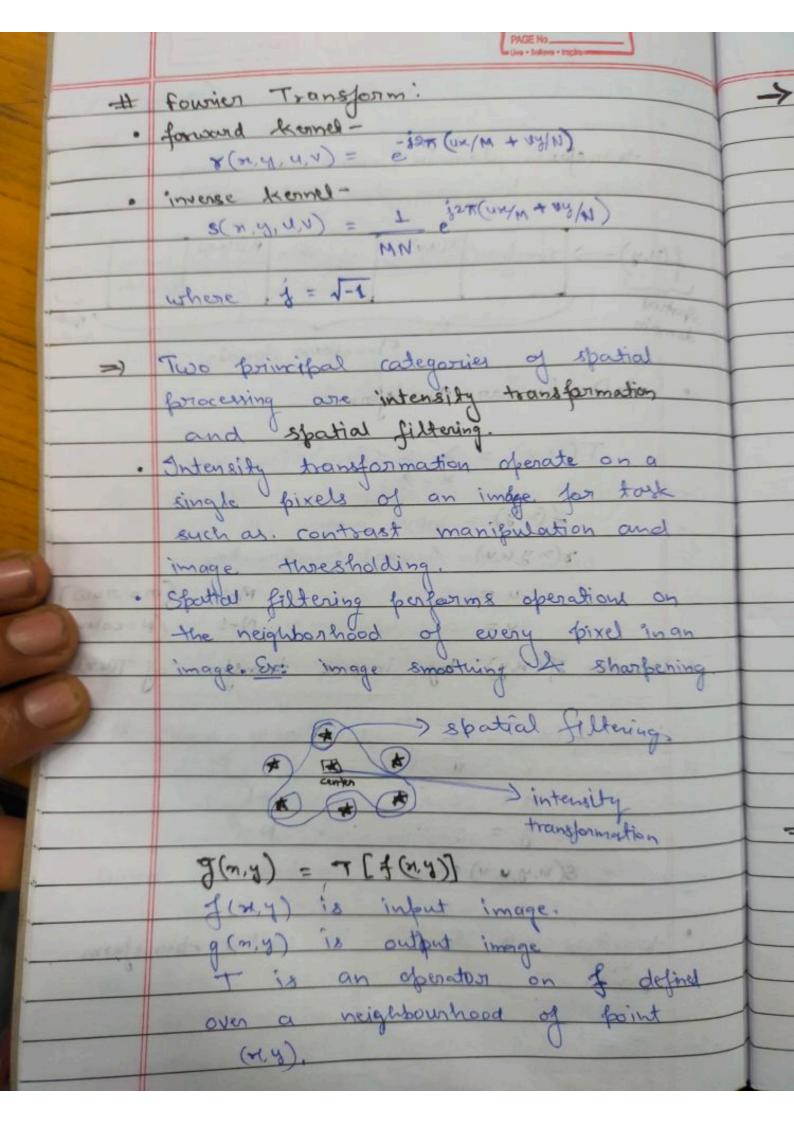
* bilinear interpolation: uses four nearest neighbour to estimate the intensity at a given location. v(x,y) = ax + by + cxy + d* Bicubic interpolation: was sixteen neavest neighbours of a point. The intensity value arrigued to point (M.y) is obtained wing the equation-V(M, 8) = 3 3 aij sij Ex: Adobe photoshop, correl photopoint > bilinear gives much better result than nearest neighbour interpolation. # Neighbour of a pixel:-· A fixel & at (M,y) has two vertical and two horizontal neighbours (n+1,y), (n-1,y), (n, y+1), (n,y-1). · This set of pixels are called 4-neighbour of p, denoted as N+(+). · The four diagonal neighbours of p: (m+1, y+1), (m+1(y+1), (m-1, y+1), (m-1, y-1). · This denoted as B No(1). here together 13th the 4- neighbour are called the 8-neighbours of p, denoted as No(b).

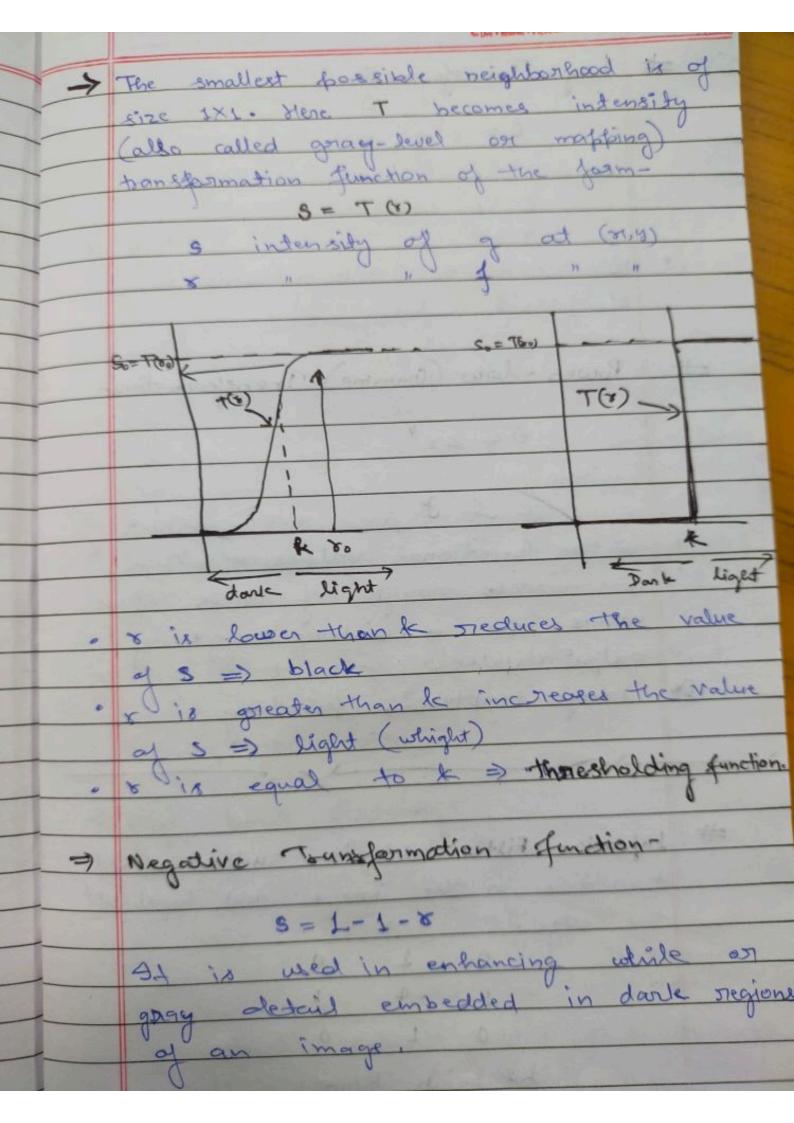


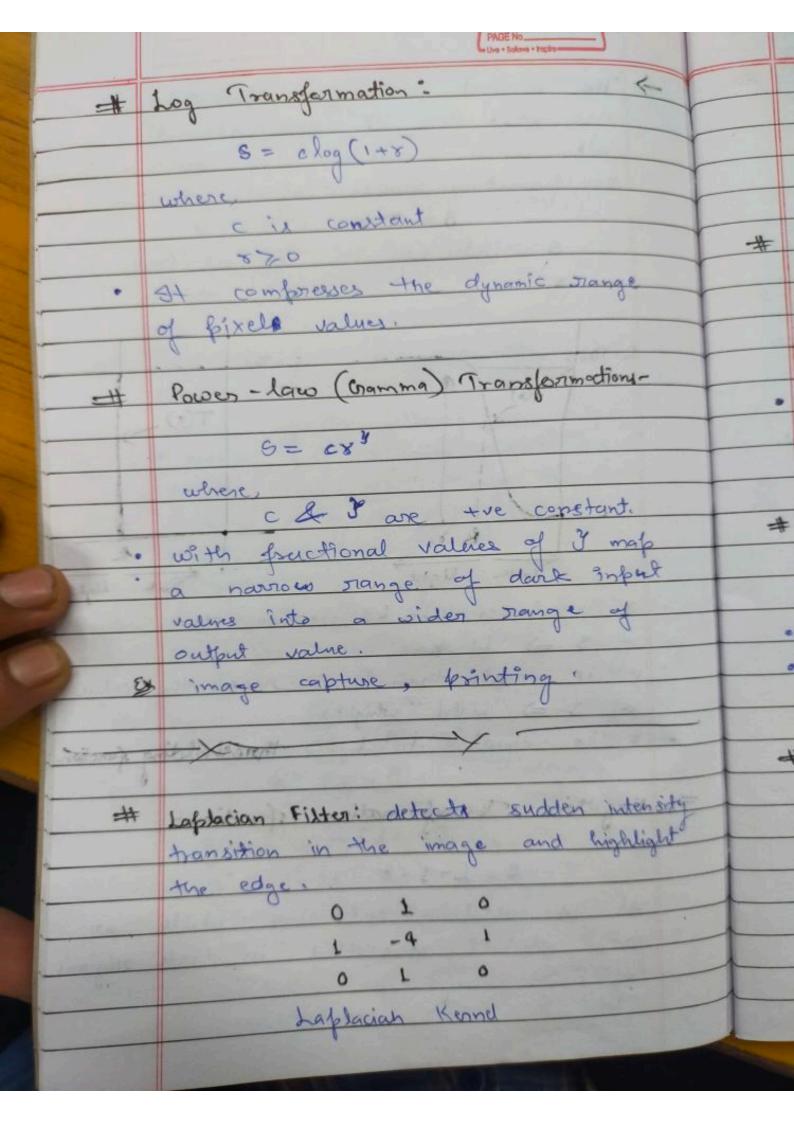


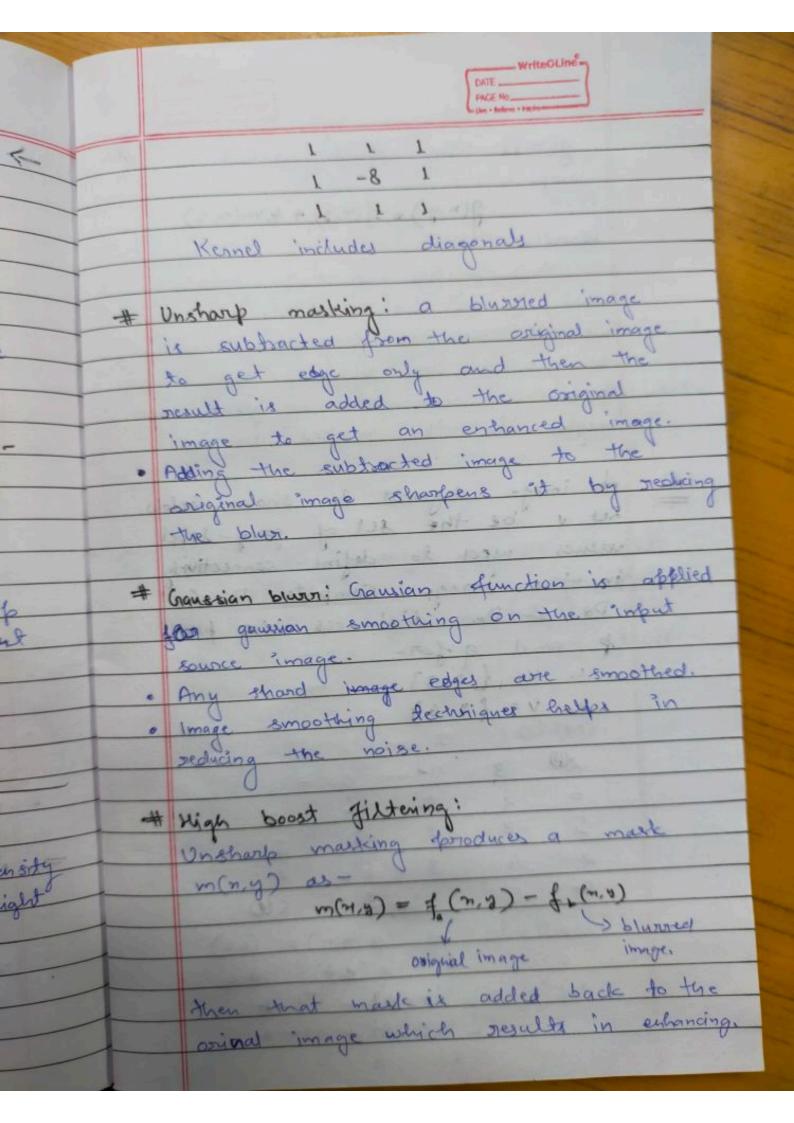


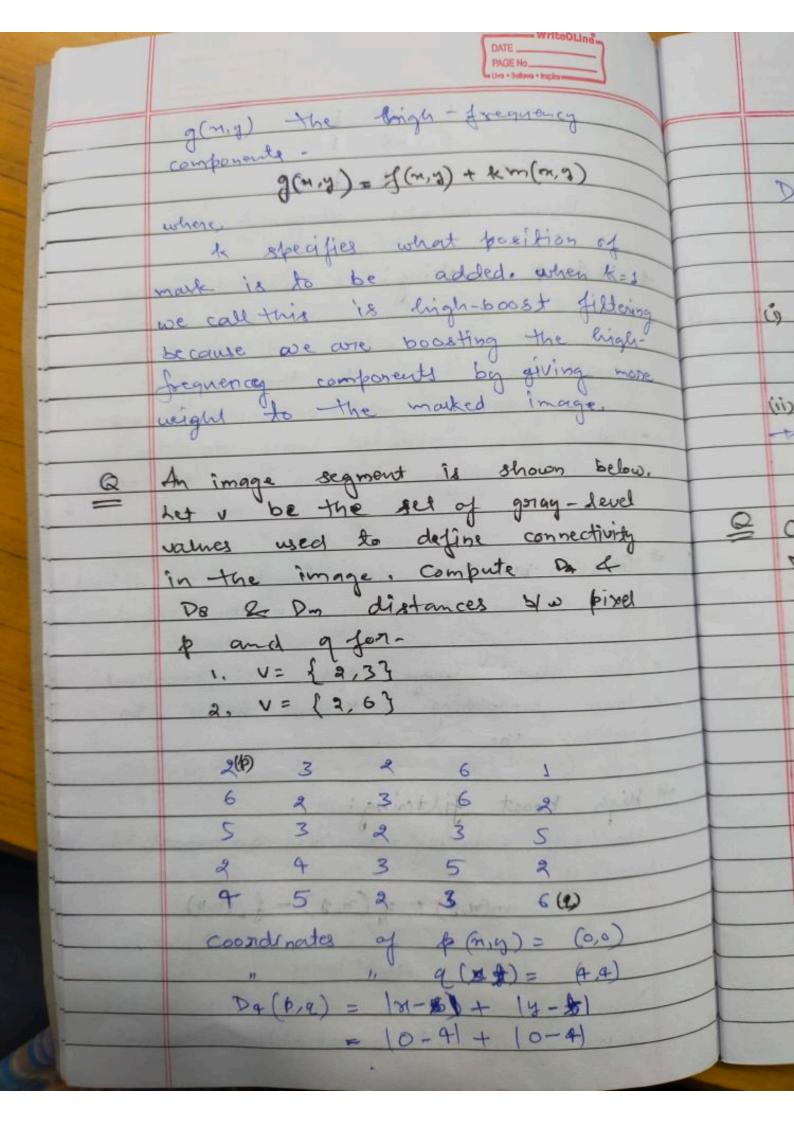


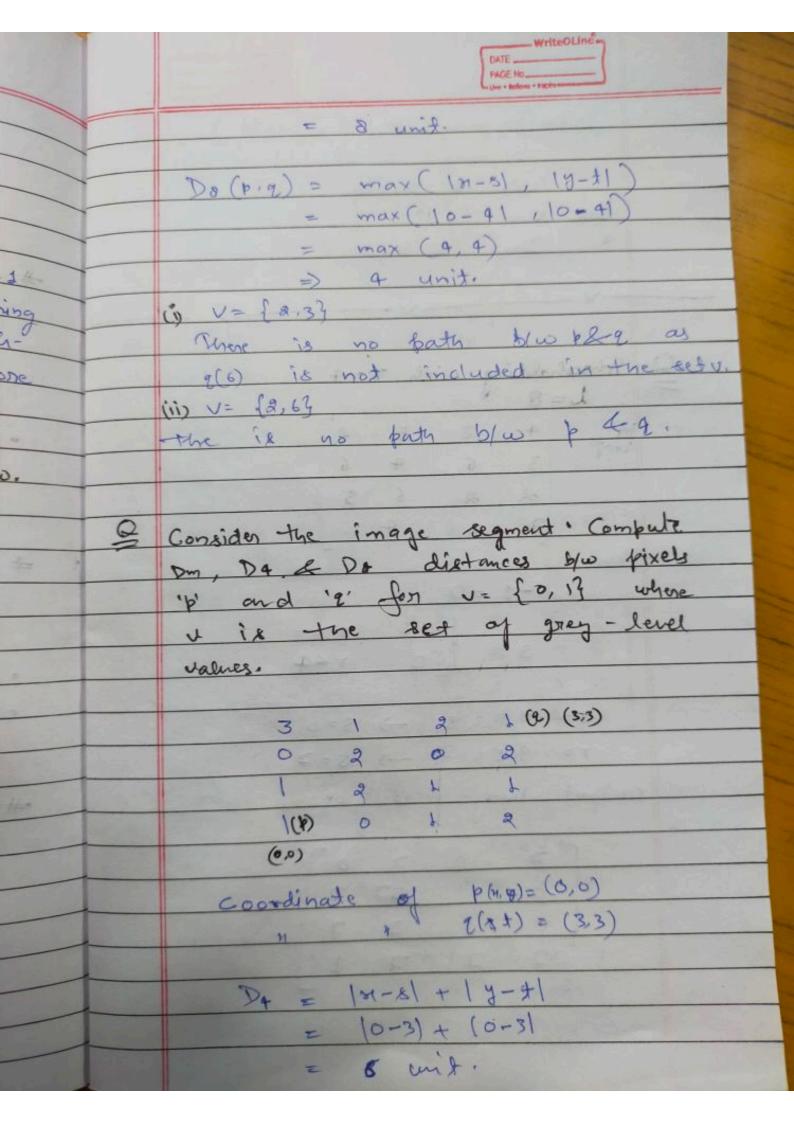


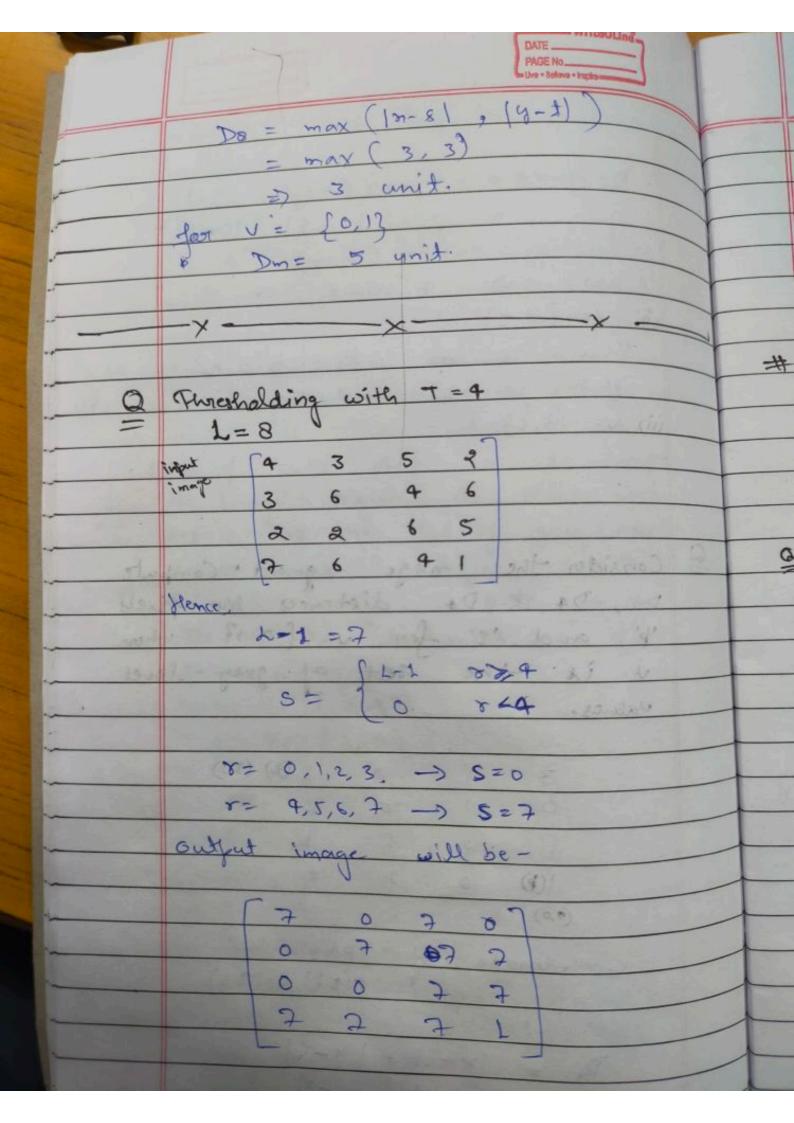


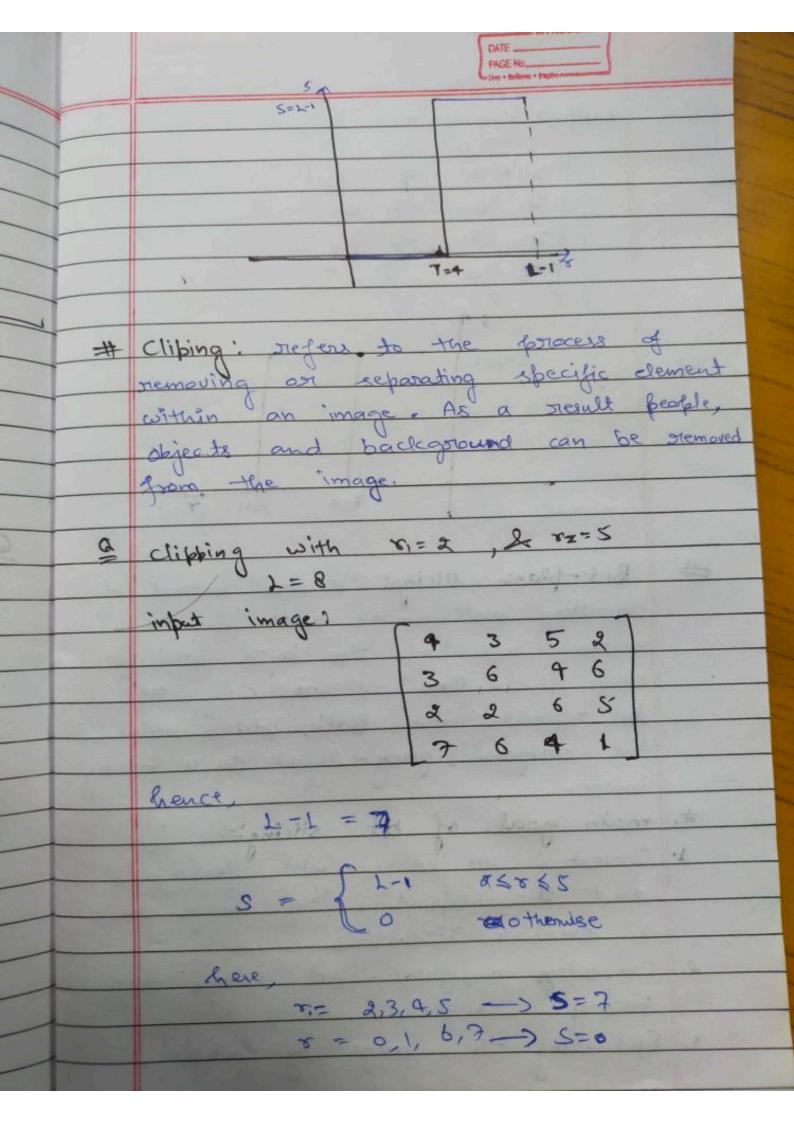




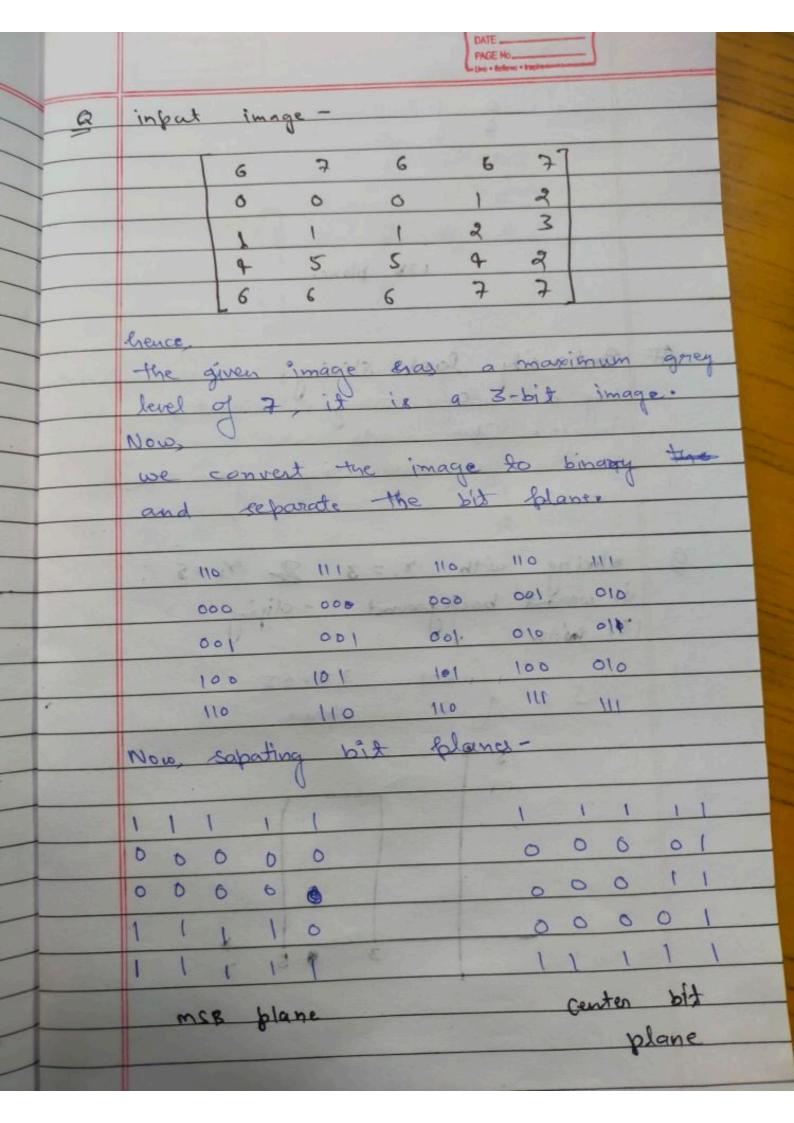








output image -5=L-1 ¥= 2 # Bit-plane slicing: is a method of morie bits by the byte wed for each frixel. One can use only MSB to nepresent the Bixel, which neduces the original grey-level to a bine *. main goal of bit string: 1. Conventing an image with fewer bits and oconnesponding the image to a smaller size. 2. Convecting a grey-level image to binary image. 3. Enhanting the image by focusing



1 6 1 3 0 0 0 0 1 1 1 LSB planes # Intensity level slicing: means light ting a specific range of intensities in an image. Other words we regment certain gray level negion from the g slicing with 8, = 3 & 72=5 is without background - cliping S = $\begin{cases} 2-1 \\ 3 \le 8 \le 5 \end{cases}$

