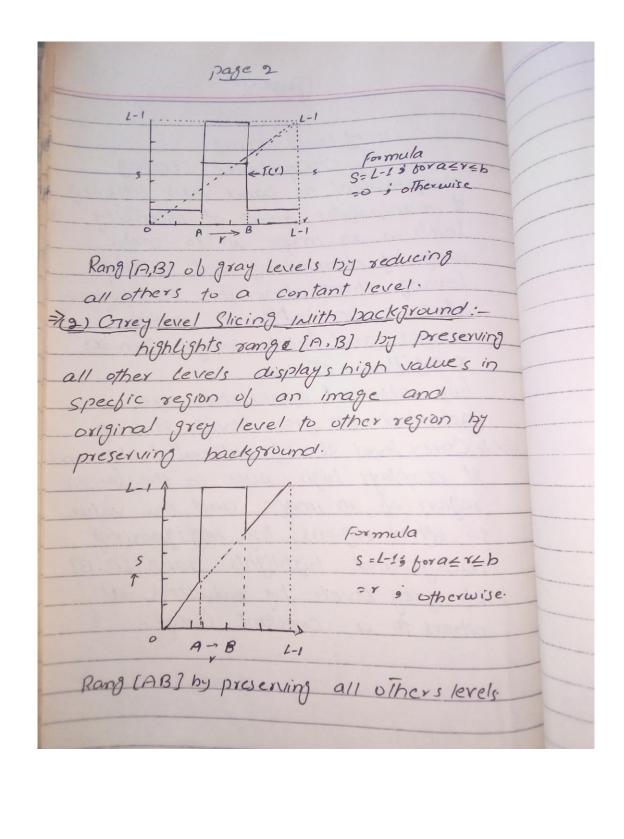
NAME AHMAD ULLAH KHAN

ID 6958

Q1: a). What is Grey Level Slicing? Explain in your own words with suitable example.

(120ge (1) Ans: Cryay Level Slicing: is equivalent to band pass biltering. et manipulates group ob intensité levels in an image up to spelic range by diminshing rest or by leaving them alone. This transform -ation is applicable in medical images and stellite image such as X-ray blaws. ct scan. Iwo different approaches are adopted for grey level slicing. X1 Grey level slicing without background. It displays high values in the specific region of an image and low value to other regions by ing ignoring background highlights rang [A.B] of grey levels by reducing all others to a constant level.

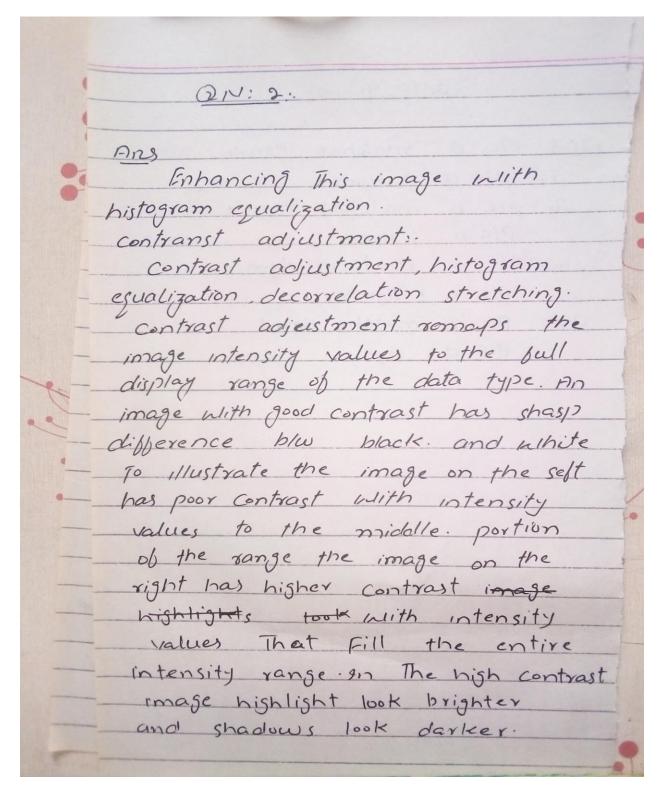


b.Is it possible to get additional details in the Negative of a picture? Justify your answer with suitable example.

QNO(1) (b)
Ans: No it is not possible to get additional details in the negative of the picture: hecause the simple operation in image processing is to compute
the negative an image. It can be reversing pixel values from black to white and intensity of output image decrease as intesity
of input image increase.

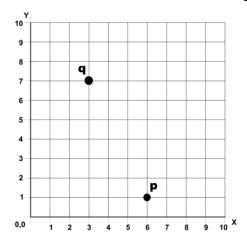
Question #2

Consider the picture given below:



Question #3

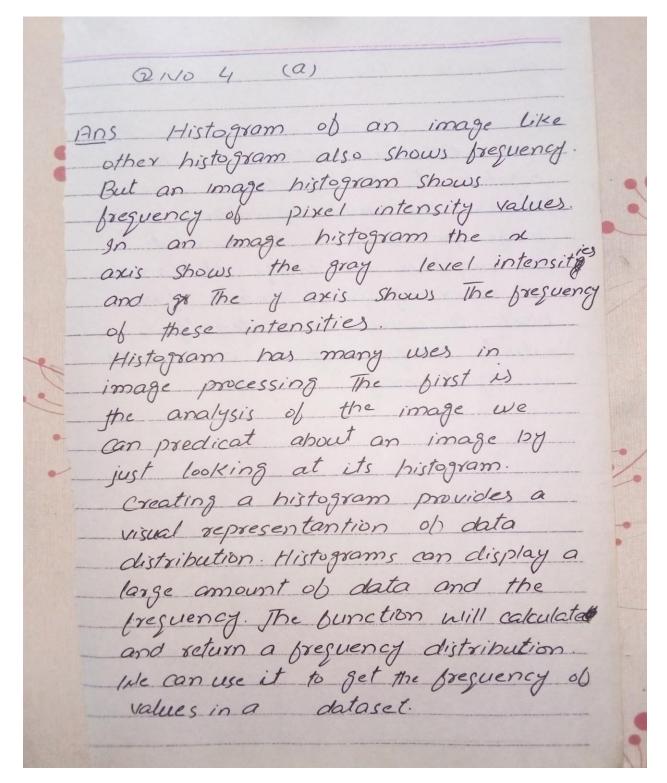
Find the following for the points 'p' & 'q' given on grid: 1) Euclidean Distance 2) City Block Distance 3) Chessboard Distance



```
03
Ans:
=> Euclidean distance blu P and ?;
   De(P, 2) = [(x-s)2+(y-t)2]
                             2 = (s, t)
       =\sqrt{(1-7)^2+(6-3)^2}
                              (7.3)
          -\sqrt{(-6)^2+(3)^2}
                             P= (x, y)
          = 136+9
                               (1,6)
    De(P.2) 2 545
=> D4 distance (city-block distance
     D4(P,2) = 1x-51 +1y-t1
         = 11 - 71 + 16 - 31
            = 6+3
    D4(P.S) = 9
 => Chesshoard distance (D& distance)
    D& (p. 2) = max (/x-s/, /y-t/)
           2 max (11-7/, 16-31)
             = max (6,3)
  D8(P92) = max (6)
```

Question #4

a). What does a Histogram of an image shows? How is it useful for processing an image?



Question #4 part (b)

QN04 (b)
the Harris
Ans Pic a matches Homa
i) pic a: Hgm?
ii, pic b matchex Hgm4
Pich: Hgm4
iii pic c matche Hgm3
pic c: Hgm3
ivi pic d matche Hgm1
Pic d: Hami