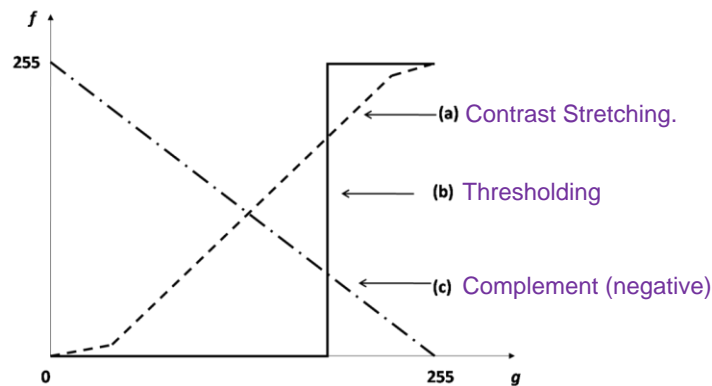
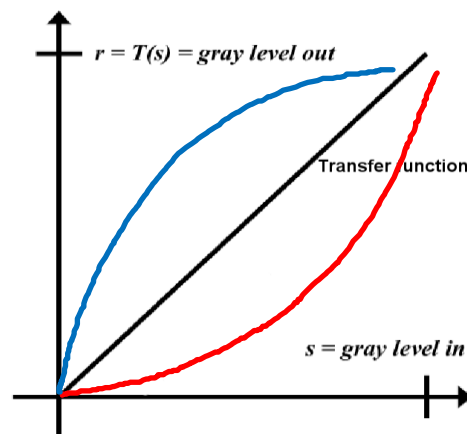


CS313 – Digital Image Processing – Assignment 01 S17355

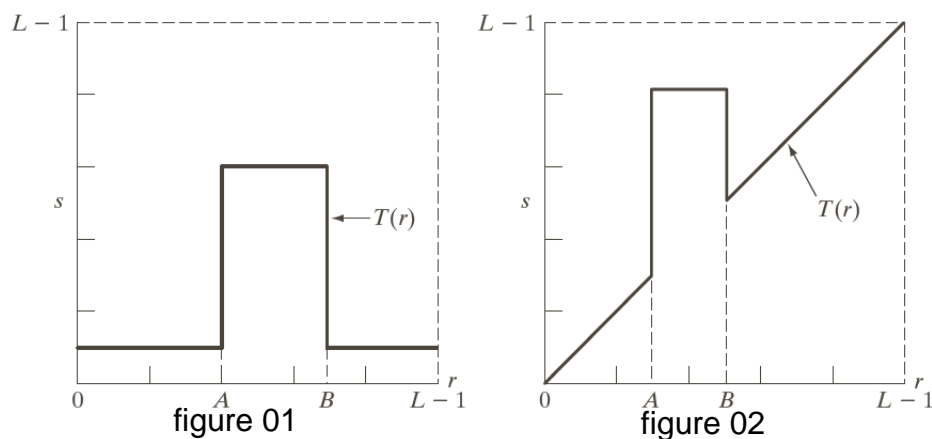
- 1) State what each of the functions below refers to, considering the output image that will be obtained after performing the transformation.



- 2) Show how the neutral transfer function shown below can be modified to
- Increase contrast ==> **Red Curve.**
 - Decrease the brightness ==> **Blue Curve.**



- 3) i) What do you call the specific transformation represented by the two functions given below? **Grey Level Slicing.**



- ii) Explain the result obtained by applying the two functions above on a given grayscale image. It manipulates the group of intensity levels in the image in the range $[A-B]$ while leaving the rest alone or diminishing them. (There are two techniques involved discussed in the next page.)

Figure 01

Grey level slicing without background:

it display high(white) values in the range [A:B] and low values(black) to the other regions to ignore the background.

Figure 02

Grey level slicing with background:

In this approach we increase(highlight) the values in the range[A:B] while preserving the intensity levels at other regions. Displays high values in specific region of an image and original grey level to other region by preserving background.