

# IT-441

# Computer Graphics

Assignment 4

# Image

**Devanshi Vyas**  
**201101141**

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## **INTRODUCTION**

**This program generates a number of new images using blending,different filters and various effects and saves them in .jpg format and in the same folder.**

**The program also creates an image by writing pixel by pixel and blending with the created images.**

**#P.S: while running this program,images 22,13 and 21 must be in the same folder as the program.**

**#Also as the images are big,it msy take a while. Please be patient.**

## **PROGRAM FUNCTIONS**

**The program does the below mentioned:  
Create various images and saving them.**

## **ALGORITHM**

**A new image is created with the help of PIL and its various function like image.blend, image.convert and various filters which are applied using image.filter.**

**The program also creates a new image by writing RGB values in each pixel of the image. This picture is then blended with another picture. Then all the images created are stored in the folder.**

## **MODULES**

**Various PIL functions such as**

**open()-to open an image. Argument is name of the image,blend()- to blend two images with name and transparency as arguments.new() -to create a new image. Arguments are mode, size, colour. filter()- to apply a filter on the image. Argument is the type of filter.invert()-to invert the image,image.convert('1')-to convert to black and white, image.save()-to save an image, arguments are name and type of image**

**have been used.**

**SCREENSHOTS(Please see the next page) (only one image blended\_original is attached here. A total of 19 images are created.The rest are in the submission folder. )**



"You're just a soldier,  
aren't you? You take your  
orders and you carry on."

- Cersei Lannister