

[SIGNAL PROCESSING]

Image averaging

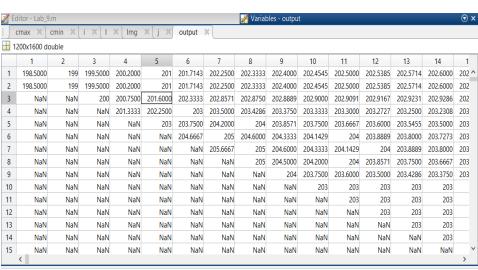
INITEDNIATIONIAL DIOMETRICO

[PRESENTED BY]

[PATIMIDHI MOUNIKA REDDY]

Image averaging

```
close all;
clear all;
clc;
%%%EXCERSIE 1:
I = imread('original.image.jpeg');
Img = (I);
[m,n] = size(Img);
output = zeros(m,n);
for i = 1:m
  for j = 1:n
     rmin = max(1,i-2);
     rmax = min(1,i+2);
     cmin = max(1,j-2);
     cmax = min(n,j+2);
     temp = Img(rmin:rmax:cmin:cmax);
```



%%%%now the pixel of the output will be the average of this

```
output(i,j) = mean(temp(:));
end
```

End

Name 📤	Value
	1600
min cmin	1599
⊞ i	1200
⊞ I	1200x1600x3 uin
⊞ Img	1200x1600 uint8
⊞ j	1600
⊞ m	1200
<mark>⊞</mark> n	1600
output	1200x1600 double
max rmax	1
min rmin	1199
temp	1x402 uint8

```
figure(1);

set(gcf,'position',get(0,'screensize'));

subplot(121);

imshow(Img),title('original.image');

subplot(122);

imshow(output);

title('average of the image')
```



%%%EXCERSIE 2:

clear all;

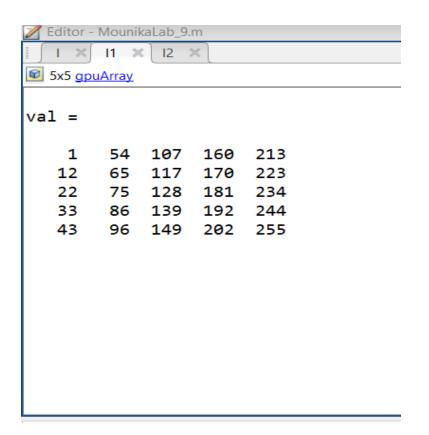
close all;

clc;

I = imread('pic.1.jpg');

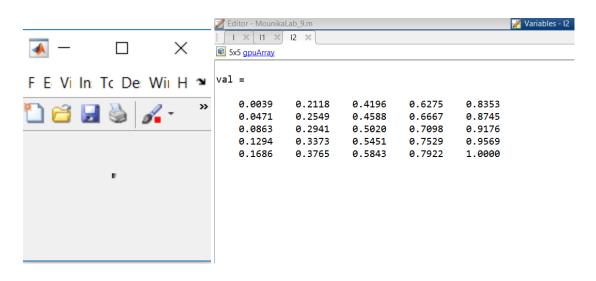
12 = im2double(I);

I1 = gpuArray(reshape(uint8(linspace(1,255,25)),[5 5]));



I2 = im2double(I1);

imshow(I1),(I2);



%%%EXCERSIE 3:

amg = imread('REALVALUE.jpg');

[a,b,c]=size(amg);

```
dst_img=zeros(a,b,c);
for k=1:10
    filename=[num2str(k), 'REALVALUE.jpg'];
    d=imread('REALVALUE.jpg');
    dst_img=dst_img+double(d);
end
dst_img=dst_img/k;
dst_img=uint8(dst_img);
```

