



MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY

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Data communication & Engineering(DCE) lab task-01:

- **Image Read, Write, Resize, Dimension Change:**

1. `Image=imread('sample.jpg');`
2. `Imwrite(image,'output.jpg');`
3. `resizedImage=imresize(image,[200,300]);`
4. `grayImage=rgb2gray(image);`

`subplot(1,3,1),imshow(image),title('Original Image');`

`subplot(1,3,2),imshow(resizedImage),title('Resized Image');`

`subplot(1,3,3),imshow(grayImage),title('Grayscale Image');`

- **Matrix Simple Operations:Addition and Subtraction**

`MatrixA=[1 2 3; 4 5 6; 7 8 9];`

`MatrixB=[9 8 7;6 5 4;3 2 1];`

MatrixAdd=MatrixA+MatrixB;

MatrixSub=MatrixA-MatrixB;

Display(MatrixAdd);

Display(MatrixSub);

- **Show Multiple Images Using Subplot**

Image1=imread('sample.jpg');

Image2=rgb2gray(image1);

Figure;

Subplot(1,2,1),imshow(image1),title('Original image');

Subplot(1,2,2),imshow(image2),title('Grayscale Image');

- **Convert Image Type**

doubleImage=im2double(image);

uint8Image=im2uint8(doubleImage);

Figure;

Subplot(1,2,1),imshow(doubleImage),title('Image as Double');

Subplot(1,2,2),imshow(uint8Image),title('Image as uint8');

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