

## Assignment -3

Problem : Perform Arithmetic Operation on two images.

### Code

```
% perform arithmetic operations on two images

img_1=imread('C:\\tut\\img_1.jpg');
img_2=imread('C:\\tut\\img_2.png');

% Resize Images

img_1=imresize(img_1,[460,750]);
img_2=imresize(img_2,[460,750]);

% Addition Of Image

img_add=img_1+img_2;

subplot(2,3,1);
imshow(img_add);

% Subtraction Of Image

img_sub=abs(img_1-img_2);

subplot(2,3,2);
imshow(img_sub);

% Multiplication Of Image

img_mul=img_1.*img_2;

subplot(2,3,3);
imshow(img_mul);

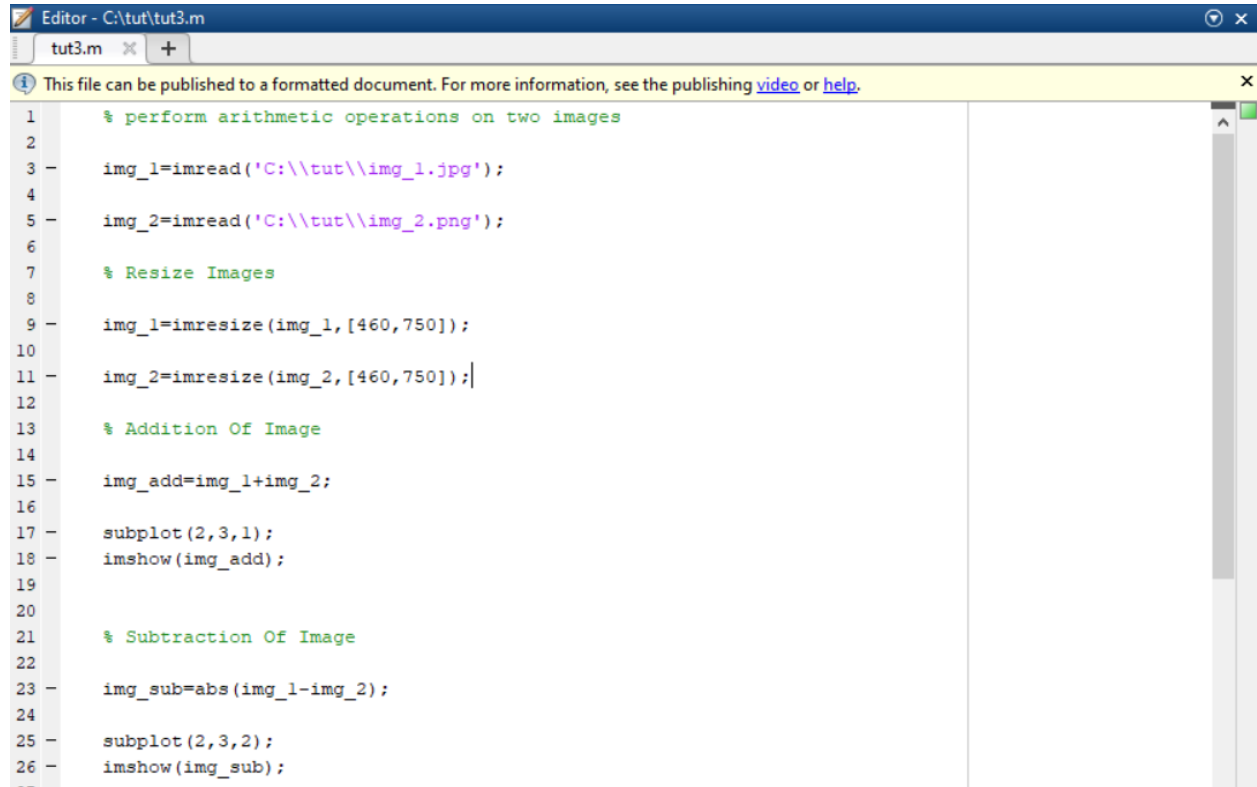
% Division Of Image

img_div=img_1./img_2;
```

```
subplot(2,3,4);  
imshow(img_div);
```

```
subplot(2,3,5);  
imshow(img_1);
```

```
subplot(2,3,6);  
imshow(img_2);
```



The screenshot shows a MATLAB editor window titled "Editor - C:\tut\tut3.m". The script contains the following code:

```
1 % perform arithmetic operations on two images  
2  
3 - img_1=imread('C:\\tut\\img_1.jpg');  
4  
5 - img_2=imread('C:\\tut\\img_2.png');  
6  
7 % Resize Images  
8  
9 - img_1=imresize(img_1,[460,750]);  
10  
11 - img_2=imresize(img_2,[460,750]);  
12  
13 % Addition Of Image  
14  
15 - img_add=img_1+img_2;  
16  
17 - subplot(2,3,1);  
18 - imshow(img_add);  
19  
20  
21 % Subtraction Of Image  
22  
23 - img_sub=abs(img_1-img_2);  
24  
25 - subplot(2,3,2);  
26 - imshow(img_sub);  
27
```

```
% Multiplication Of Image
```

```
img_mul=img_1.*img_2;
```

```
subplot(2,3,3);
```

```
imshow(img_mul);
```

```
% Division Of Image
```

```
img_div=img_1./img_2;
```

```
subplot(2,3,4);
```

```
imshow(img_div);
```

```
subplot(2,3,5);
```

```
imshow(img_1);
```

```
subplot(2,3,6);
```

```
imshow(img_2);
```

## Result

