

Execute following MATLAB program:

```
clc
clear all
I1 = imread('cameraman.tif');
I2 = imread('rice.png');
subplot(2, 2, 1);imshow(I1);title('Original image I1');
subplot(2, 2, 2);imshow(I2);title('Original image I2');
I=I1+I2; % Addition of two images
subplot(2, 2, 3);imshow(I);title('Addition of image I1+I2');
I=I1-I2; %Subtraction of two images
subplot(2, 2, 4);imshow(I);title('Subtraction of image I1-I2');
figure;
I=I1+50;
subplot(2, 2, 1);imshow(I);title('Bright Image I');
I=I1-100;
subplot(2, 2, 2);imshow(I);title('Dark Image I');
M=im2bw(I2) % Converts into binary image having 0s and 1s
I=uint8(I1).*uint8(M); %Type casting before multiplication
subplot(2, 2, 3);imshow(I);title('multiplication of Image');
I=uint8(I1)./uint8(M); %Type casting before division
subplot(2, 2, 4);imshow(I);title('division of Image ');
```

```
clc
clear all
I1 = imread('cameraman.tif');
I2 = imread('rice.png');
subplot(2, 2, 1);imshow(I1);title('Original image I1');
subplot(2, 2, 2);imshow(I2);title('Original image I2');
I=imadd(I1,I2); % Addition of two images
subplot(2, 2, 3);imshow(I);title('Addition of image ');
I=imsubtract(I1,I2); %Subtraction of two images
subplot(2, 2, 4);imshow(I);title('Subtraction of image ');
figure;
I=imadd(I1,50);
subplot(2, 2, 1);imshow(I);title('Bright Image I');
I=imsubtract(I1,100);
subplot(2, 2, 2);imshow(I);title('Dark Image I');
M=im2bw(I2) % Converts into binary image having 0s and 1s
I=immultiply(uint8(I1),uint8(M)); %Type casting before multiplication
subplot(2, 2, 3);imshow(I);title('multiplication of Image');
I=imdivide(uint8(I1),uint8(M)); %Type casting before division
subplot(2, 2, 4);imshow(I);title('division of Image ');
```

Result after execution of program:

