4. ARITHMETIC OPERATORS USING IMAGE.

PROGRAM:

```
function demo_arithmetic()

    im1 = imread(fullpath(getIPCVpath() + "/images/baboon.png"));
    im2 = imread(fullpath(getIPCVpath() + "/images/peppers.png"));

    ima1 = imadd(im1,im2);
    ima2 = imadd(im1,100);
    subplot(221); imshow(im1); title("First Image");
    subplot(222); imshow(im2); title("Second Image");
    subplot(223); imshow(ima1); title("1st Image + 2nd Image");
    subplot(224); imshow(ima2); title("1st Image + constant 100");

    ims1 = imsubtract(im1, im2);
    ims2 = imsubtract(im1, 100);
    scf();
    subplot(221); imshow(im1); title("First Image");
    subplot(222); imshow(im2); title("Second Image");
    subplot(223); imshow(ims1); title("1st Image - 2nd Image");
    subplot(224); imshow(ims2); title("1st Image - constant 100");

    imm1 = immultiply(im1, im2);
    imm2 = immultiply(im1, 2);
    scf();
    subplot(221); imshow(im1); title("First Image");
    subplot(222); imshow(im2); title("Second Image");
    subplot(223); imshow(imm1); title("1st Image x 2nd Image");
    subplot(224); imshow(imm2); title("1st Image x constant 2");
```
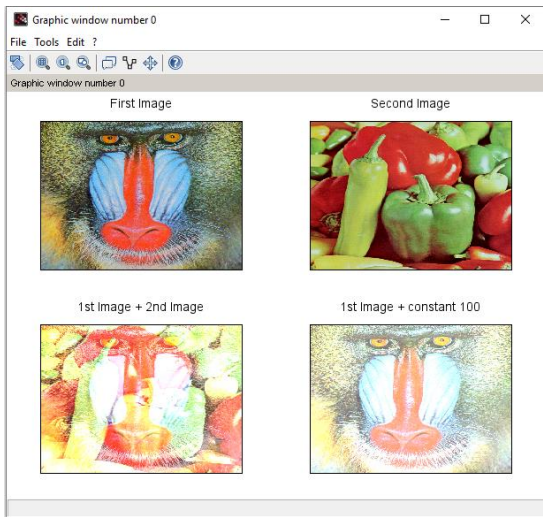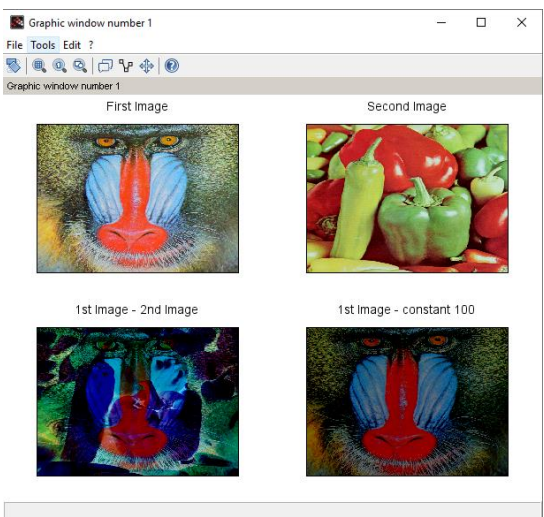
```
imd1 = imdivide(im1, im2);

imd2 = imdivide(im1, 2);

scf();

subplot(221); imshow(im1); title("First Image");

subplot(222); imshow(im2); title("Second Image");

subplot(223); imshow(imd1); title("1st Image / 2nd Image");

subplot(224); imshow(imd2); title("1st Image / constant 2");


endfunction
demo_arithmetic();
clear demo_arithmetic;
```
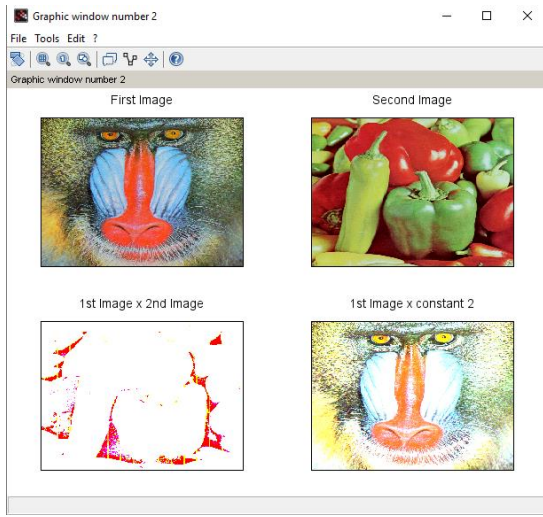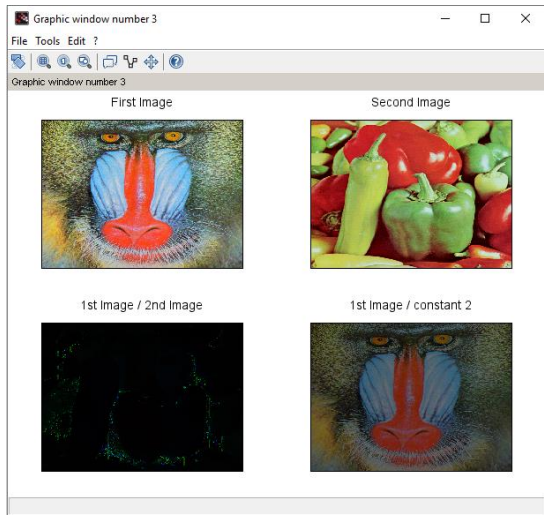
OUTPUT:

(Fig:1) Addition of Image

(Fig:2) Subtraction of Image

(Fig:3) Multiplication of Image

(Fig:4) Division of Image