

Code:

```
function SelectImageButtonPushed(app, event)
    [fname, fpath] = uigetfile( ...
        {'*.jpg;*.jpeg;*.png'}, ...
        'Select file to open' ...
    );
    im = imread([fpath, fname]);
    im = rgb2gray(im);
    app.OutputPanel.AutoResizeChildren = 'off';
    ax1 = subplot(1, 3, 1, 'Parent', app.OutputPanel);
    imshow(im, 'Parent', ax1);
    title('Original image', 'Parent', ax1);
    ax2 = subplot(1, 3, 2, 'Parent', app.OutputPanel);
    imshow(imbinarize(im), 'Parent', ax2);
    title('Binary thresholded', 'Parent', ax2);
    ax3 = subplot(1, 3, 3, 'Parent', app.OutputPanel);
    thres = multithresh(im, 3);
    imshow(imquantize(im, thres), [], 'Parent', ax3);
    title('Multi-level thresholded', 'Parent', ax3);
end
```

Output

