

Code:

```
function browseimage(app, event)
    global I;

    [filename,filepath]=uigetfile({'*.*;*.jpg;*.png;*.oct;*.bmp'}, 'Select file to
open');

    image=[filepath,filename];
    I=imread(image);
    imagesc(app.UIAxes,I);
end
% Clicked callback: edgedetectionDropDown
function edgedetection(app, event)
    item = event.InteractionInformation.Item;
    value=app.edgedetectionDropDown.Value;
    global I;
    I1=im2gray(I);
    if strcmp(value,"Sobel")
        I2=edge(I1,"sobel");
        imagesc(app.UIAxes2,I2);
    elseif strcmp(value,"Prewitt")
        I2=edge(I1,"prewitt");
        imagesc(app.UIAxes2,I2);
    elseif strcmp(value,"Roberts")
        I2=edge(I1,"roberts");
        imagesc(app.UIAxes2,I2);
    elseif strcmp(value,"log")
        I2=edge(I1,"log");
        imagesc(app.UIAxes2,I2);
    elseif strcmp(value,"canny")
        I2=edge(I1,"canny");
        imagesc(app.UIAxes2,I2);
    elseif strcmp(value,"aprxcanny")
        I2=edge(I1,"approxcanny");
        imagesc(app.UIAxes2,I2);
    elseif strcmp(value,"zerocross")
        I2=edge(I1,"zerocross");
        imagesc(app.UIAxes2,I2);
    else
        end
    end
end
```

Output:



