```
%clearing the workspace environment
clc
clear
close all
```

```
%setting up the camera

%declaring the webcam to camera
camera = webcam;
%camera will start after this command

%clicking the snapshot using the camera
picture = camera.snapshot;

%clearing the camera
clear camera;
%camera will stop after this command
```

```
%initilising the pre trained network and then using the transfer learning
%to just modify the network to our own needs
net = googlenet;

%taking the size of the first layer so that we can preprocess our image
%accourding to our needs
inlayer = net.Layers(1)
```

```
inlayer =
  ImageInputLayer with properties:

                      Name: 'data'
                 InputSize: [224 224 3]
       SplitComplexInputs: 0

   Hyperparameters
          DataAugmentation: 'none'
             Normalization: 'zerocenter'
    NormalizationDimension: 'auto'
                      Mean: [224x224x3 single]
```

```
%storing the input size and displaying it in a variable
expectedSize = inlayer.InputSize
```

```
expectedSize = 1×3
   224   224     3
```

```
%pre prossing the live data taken from the camera
figure(1);
image(picture);

%resizing the picture so that it can be used for the network
picture = imresize(picture,[224,224]);
```

```
%classifying the image taken from the camera
label = classify(net, picture);

%naming the title by the name of classified class
title(upper(char(label)));
```