1. Take a picture of yourself (passport size is enough) and answer/do the following
Save the image as a jpeg file and include in the report

```
img=imread('sid.jpeg');
subplot(221)
imshow(img);
```

2.What is the number of independent variables

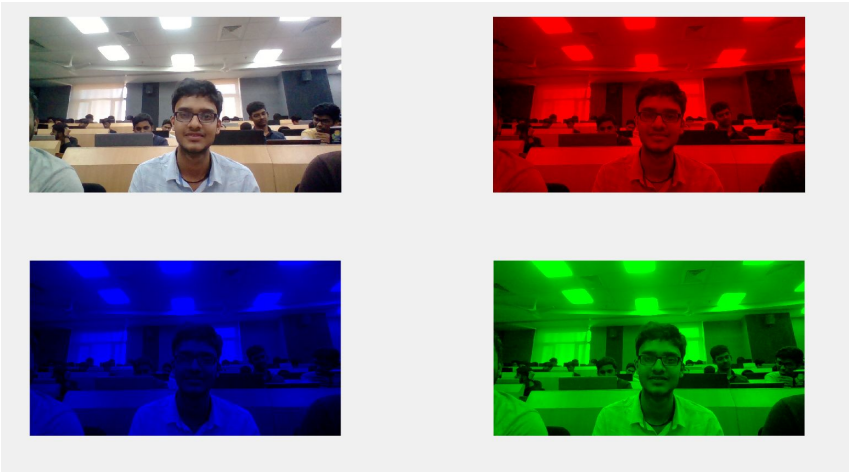
```
disp("The number of independent variables are 2");
```

3.What is the number of components

```
disp("The number of components are 3 (red,blue,green)");
```

4.Display the individual components of the image

```
red=img;blue=img ; green=img;
red(:,:,[2,3])=0;
green(:,:,[1,3])=0;
blue(:,:,[1,2])=0;;
subplot(222)
imshow(red);
subplot(223)
imshow(blue);
subplot(224)
imshow(green);
```



5.determine the minimum, mean and maximum of each component

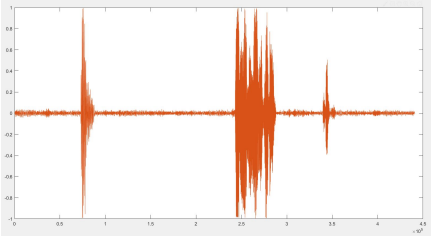
```
min([red(:); green(:); blue(:)])
max([red(:); green(:); blue(:)])
mean([red(:); green(:); blue(:)])
```

6.Determine the size of the image

```
size(img)
```

7.Record your voice for a duration of 5 seconds and answer/do the following
Read the signal in matlab and plot all the channels of the signal on separate figures

```
y = audioread('sidvoice.m4a');
```



8.How many channels are present in the signal
disp("There are two channels present");
9.Is this signal digital or analog?
disp("Signal is analog");
10.What is number of the values in the sequence
size(y);
11.What is the energy of the signal in each channel
12.What is the sample rate?
z=audioinfo('sidvoice.m4a');
disp(z);