```
clc;
clear all;
close all;
a=VideoReader('video.mp4');
for img = 1:a.NumberOfFrames;
    filename=strcat('frame',num2str(img),'.jpg');
    b = read(a, img);
    imwrite(b,filename);
end
```

```
n=5
```

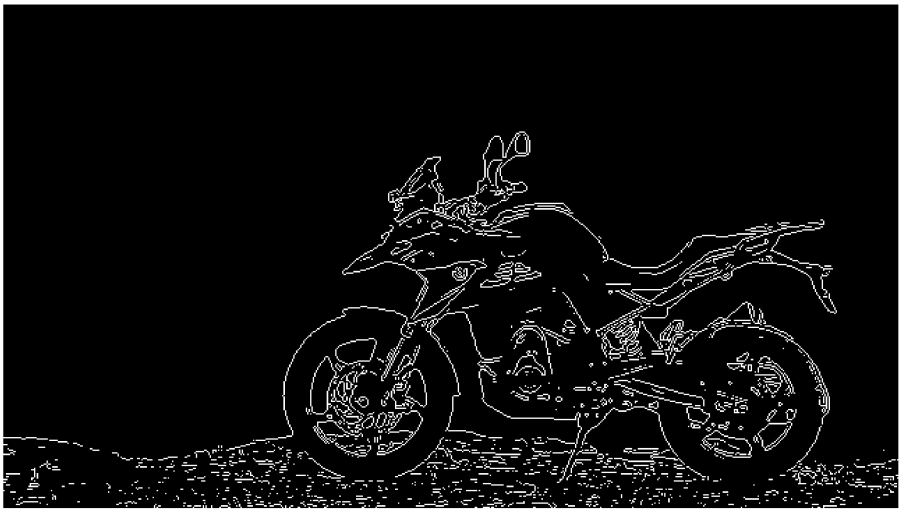
```
n = 5
```

```
imgN=randi([1,n],1);
imgR=imread(strcat('frame',num2str(imgN),'.jpg'));
imshow(imgR);
```

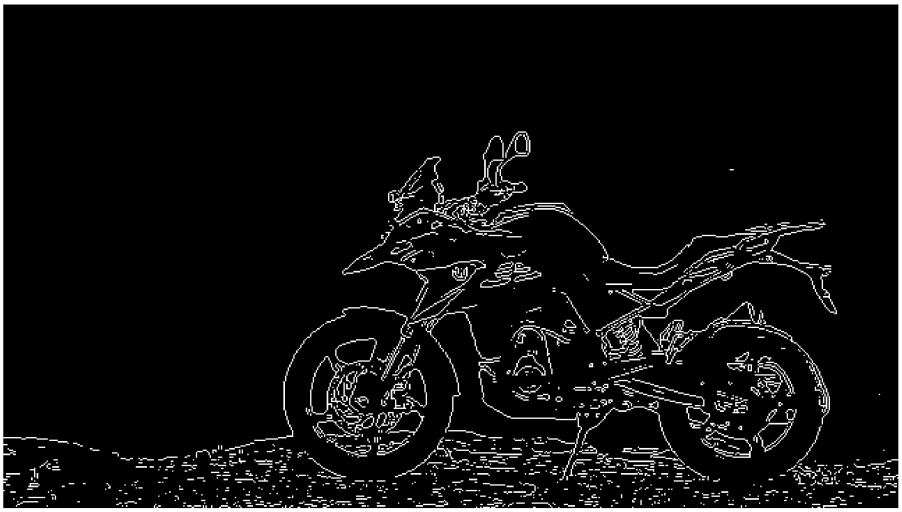
```
I = imread('bmw-gs2.jpeg');
imshow(I)
```

```
I2 = rgb2gray(I);
figure
imshow(I2)
```

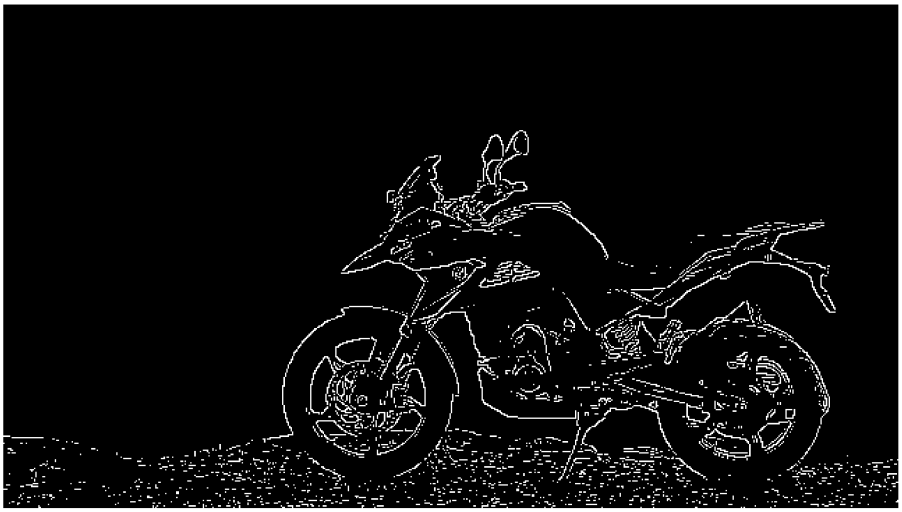
```
BW1 = edge(I2,'sobel');
imshow(BW1)
```



```
BW2 = edge(I2,'prewitt');
imshow(BW2)
```



```
BW3 = edge(I2,'roberts');
imshow(BW3)
```



```
lab=[0 1 0;1 -4 1; 0 1 0];
rez=uint8(filter2(lab,I2,'same'));
imshow(rez);
title('laplicaian');
```

laplicaian

```
for img = 1:a.NumberOfFrames;
    I2=im2gray(imread(strcat('frame',num2str(img),'.jpg')));
    Kaverage = filter2(fspecial('average',3),I2)/255;
    imshow(Kaverage);
end
```