



Estd: 1947

# Walchand College Of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli, 416415

## EXPERIMENT-1

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**Academic Year:** 2021-22

**Semester:** 6th

**Course:** Digital Image Processing Lab

**Course Code:** 5EN374

**Name:** Durvesh Naresh Patil

**Roll No.** 2019BTEEN00035

**Batch:** EN-1

**Performed on:** 19/01/2022

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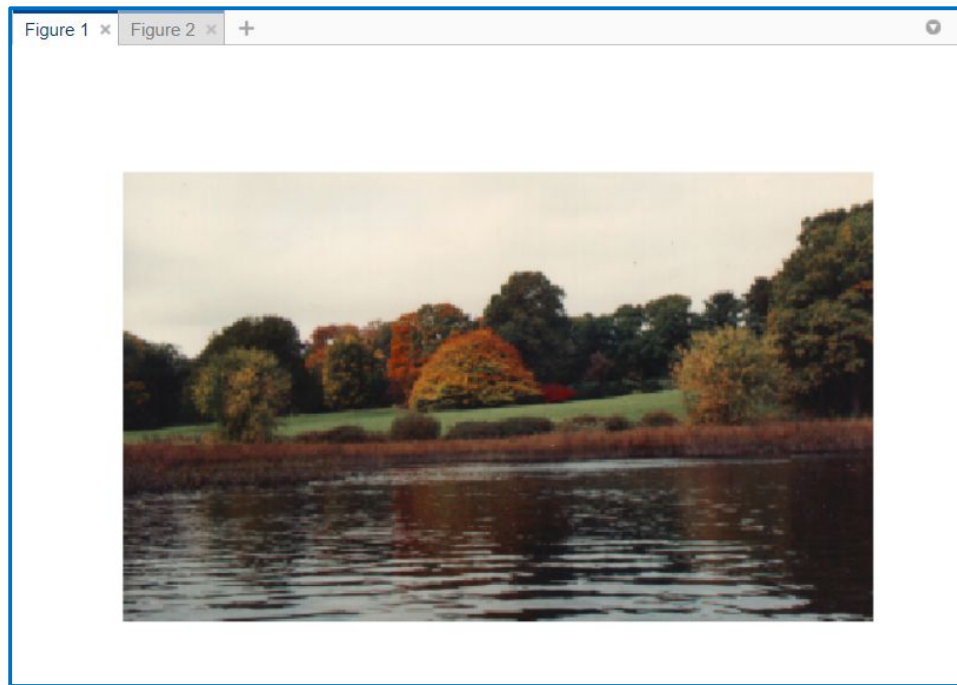
**TITLE OF EXPERIMENT:** Reading and displaying image using MATLAB.

**AIM:** To read and display image along with its properties

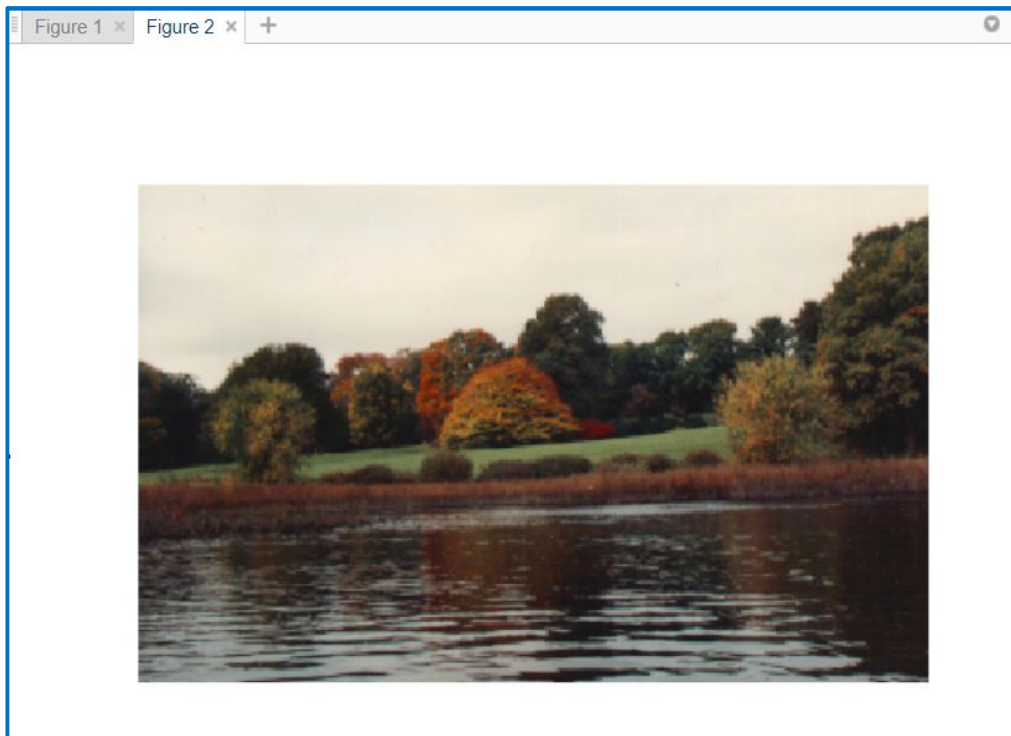
**PROGRAM:**

```
clear all;
close all;
clc;
a = imread('autumn.tif');
figure,
imshow(a),
iminfo('autumn.tif')
a(100,200,2)
a(100,200,1:3)
imwrite(a,'ABC.tif')
b = imread('ABC.tif');
figure,
imshow(b),
iminfo('ABC.tif')
```

**INPUT:** (Image)



**OUTPUT:** (Image)



## Command Window

ans =

struct with fields:

```
Filename: '/MATLAB Drive/Digital Image Processing/EXP01/autumn.tif'
FileModDate: '15-Feb-2022 10:11:41'
FileSize: 213642
Format: 'tif'
FormatVersion: []
Width: 345
Height: 206
BitDepth: 24
ColorType: 'truecolor'
FormatSignature: [1x4 double]
ByteOrder: 'little-endian'
NewSubFileType: 0
BitsPerSample: [1x3 double]
Compression: 'Uncompressed'
PhotometricInterpretation: 'RGB'
StripOffsets: [1x30 double]
SamplesPerPixel: 3
RowsPerStrip: 7
StripByteCounts: [1x30 double]
XResolution: 72
YResolution: 72
ResolutionUnit: 'Inch'
Colormap: []
PlanarConfiguration: 'Chunky'
TileWidth: []
```

```
TileLength: []
TileOffsets: []
TileByteCounts: []
Orientation: 1
FillOrder: 1
GrayResponseUnit: 0.0100
MaxSampleValue: [1x3 double]
MinSampleValue: [1x3 double]
Thresholding: 1
Offset: 213218
```

```
ans =  
  
uint8  
  
25  
  
1x1x3 uint8 array  
  
ans(:,:,1) =  
  
75  
  
ans(:,:,2) =  
  
25  
  
ans(:,:,3) =  
  
30
```

```
ans =  
  
struct with fields:  
  
    Filename: '/MATLAB Drive/ABC.tif'  
    FileModDate: '23-Feb-2022 09:32:11'  
    FileSize: 213570  
    Format: 'tif'  
    FormatVersion: []  
    Width: 345  
    Height: 206  
    BitDepth: 24  
    ColorType: 'truecolor'  
    FormatSignature: [1x4 double]  
    ByteOrder: 'little-endian'  
    NewSubFileType: 0  
    BitsPerSample: [1x3 double]  
    Compression: 'PackBits'  
    PhotometricInterpretation: 'RGB'  
    StripOffsets: [1x30 double]
```

```
PhotometricInterpretation: 'RGB'
  StripOffsets: [1x30 double]
  SamplesPerPixel: 3
  RowsPerStrip: 7
  StripByteCounts: [1x30 double]
  XResolution: 72
  YResolution: 72
  ResolutionUnit: 'Inch'
  Colormap: []
PlanarConfiguration: 'Chunky'
  TileWidth: []
  TileLength: []
  TileOffsets: []
  TileByteCounts: []
  Orientation: 1
  FillOrder: 1
GrayResponseUnit: 0.0100
  MaxSampleValue: [1x3 double]
  MinSampleValue: [1x3 double]
  Thresholding: 1
  Offset: 213134
```

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