Week 10

a. Develop a Java application to implement the opening of a door while opening man should present before hut and closing man should disappear.

AIM: Develop a Java application to implement the opening of a door while opening man should present before hut and closing man should disappear.

Source code:

```
import java.awt.*;

import java.awt.event.*;

class Animation extends JFrame implements ActionListener

{

ImageIcon ii1, ii2;

Container c;

JButton b1,b2;

JLabel lb1;

Animation()

{

 c = getContentPane();

 c.setLayout(null);

 ii1 = new ImageIcon("house0.jpg");

 ii2 = new ImageIcon("house1.jpg");

 lb1 = new JLabel(ii1);

 lb1.setBounds(50,10,500,500);

 b1 = new JButton("Open");

 b2 = new JButton("Close");

 b1.addActionListener(this);

 b2.addActionListener(this);
```

```
 b1.setBounds(650,240,70,40);
 b2.setBounds(650,320,70,40);
 c.add(lb1);
 c.add(b1);
 c.add(b2);
}
public void actionPerformed(ActionEvent ae)
{
 String str = ae.getActionCommand();
 if( str.equals("Open") )
 lb1.setIcon(ii2);
 else
 lb1.setIcon(ii1);
}
public static void main(String args[])
{
 Animation ob = new Animation();
 ob.setTitle("Animation");
 ob.setSize(800,600);
 ob.setVisible(true);
 ob.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
}
```

b. Develop a Java application by using J text Field to read decimal value and converting a decimal number into binary number then print the binary value in another Jtext Field.

AIM: a Java application by using J text Field to read decimal value and converting a decimal number into binary number then print the binary value in another Jtext Field.

SOURCE CODE:

```
<applet code="Rottenapplet.class" height=300 width=300></applet>

import java.awt.*;

import java.awt.event.*;

import java.applet.*;

import javax.swing.*;

public class rottenapplet extends JApplet implements ActionListener

{

JPanel mainpanel=new JPanel(new GridLayout (3,1));

JPanel p1=new JPanel(new FlowLayout(0));

JPanel p2=new JPanel(new FlowLayout (0));

JPanel p3=new JPanel(new FlowLayout ());

JTextField q1=new JTextField (10);

JTextField q2=new JTextField (10);

JButton clickbutton = new JButton("convert");

public void init()

{

getContentPane().add(mainpanel);

mainpanel.add(p1);

mainpanel.add(p2);

mainpanel.add(p3);

p1.add(new JLabel("Insert Decimal:"));
```

```
p1.add(q1);
p2.add(clickbutton);
p3.add(new JLabel("Decimal to Binary:"));
p3.add(q2);
clickbutton.addActionListener(this);
}
public void actionPerformed(ActionEvent x)
{
if(x.getSource()==clickbutton)
{
int counter,dec,user;
user=Integer.valueOf(q1.getText()).intValue();
String[]conversion=new String[8];
String[]complete=new String[4];
counter=0;
complete[0]="";
do
{
dec=user%2;
conversion[counter]=String.valueOf(dec);
complete[0]=conversion[counter]+complete[0];
user=user/2;
counter+=1;
}
while(user !=0);
```

```
q2.setText(String.valueOf(complete[user]));
}
}
}
```