

```

2. class DisplayMessage extends Thread {
    private String message;
    private int interval;

    public DisplayMessage(String message, int interval) {
        this.message = message;
        this.interval = interval;
    }

    public void run() {
        while (true) {
            try {
                System.out.println(message);
                Thread.sleep(interval * 1000);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
        }
    }
}

public class Main {
    public static void main(String[] args) {
        DisplayMessage thread1 = new DisplayMessage(
            "BMS college of Engineering", 10);
        DisplayMessage thread2 = new DisplayMessage(
            "CSE", 9);

        thread1.start();
        thread2.start();
    }
}

```

Done
19/2/24

o/p → BMS college of Engineering

CSE
CSE
CSE
CSE

1. Creating label, button TextField in Frame using AWT

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
public class AWTExample extends WindowAdapter {
    Frame f;
```

```
    AWTExample() {
```

```
        f = new Frame();
```

```
        f.addWindowListener(this);
```

```
        Label l = new Label("Employee id:");
```

```
        Button b = new Button("submit");
```

```
        TextField t = new TextField();
```

```
        l.setBounds(20, 80, 80, 30);
```

```
        t.setBounds(20, 100, 80, 30);
```

```
        b.setBounds(100, 100, 80, 30);
```

```
        f.add(b);
```

```
        f.add(l);
```

```
        f.add(t);
```

```
        f.setSize(400, 300);
```

```
        f.setTitle("Employee info");
```

```
        f.setLayout(null);
```

```
        f.setVisible(true);
```

```
    }
```

```
    public void windowClosing(WindowEvent e) {
```

```
        System.exit(0);
```

```
    }
```

```
    public static void main(String[] args) {
```

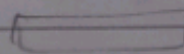
```
        AWTExample awtObj = new AWTExample();
```

```
    }
```

```
}
```

DP →

Employee Info



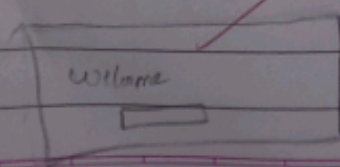
2. Create a button and add a action listener for Mouse click.

```

import java.awt.*;
import java.awt.event.*;
public class EventHandling extends WindowAdapter
    implements ActionListener {
    Frame f;
    TextField tf;
    EventHandling () {
        f = new Frame();
        f.addWindowListener(this);
        tf = new TextField();
        tf.setBounds(50, 10, 150, 20);
        Button b = new Button("Click me");
        b.setBounds(100, 150, 80, 30);
        b.addActionListener(this);
        f.add(b);
        f.add(tf);
        f.setSize(300, 300);
        f.setLayout(null);
        f.setVisible(true);
    }
    public void actionPerformed(ActionEvent e) {
        tf.setText("Welcome");
    }
    public void windowClosing(WindowEvent e) {
        System.exit(0);
    }
    public static void main(String args[]) {
        new EventHandling();
    }
}

```

O/P →



programs on IO

```

1. Import java.io*;
   public class ByteArrayInput {
       public static void main (String[] args) throws
       IOException {
           byte[] buf = {35, 36, 37, 38};
           ByteArrayInputStream byt = new ByteArrayInputStream
           (buf);

           int k=0;
           while ((k = byt.read()) != -1) {
               char ch = (char) k;
               System.out.println ("ASCII value of character is
               : " + k + "; Special Character is : " + ch);
           }
       }
   }

```

```

2. Public class FileEx {
   public static void main (String a[] throws IOException {
       File InputStream fin = new File.InputStream ("Example
       - test.txt");

       int content;
       System.out.println ("Remaining byte that can be read : " +
       fin.available());

       content = fin.read();
       System.out.println ((char) content + " ");
       sdp (content + " ");
       sdp ("Remaining byte that can be read : " +
       fin.available());

       System.out.println ("Remaining bytes that can be
       read : " + fin.available());
   }
}

```



```
3. import java.io.FileInputStream;
import java.io.IOException;
```

```
public class FileEx2 {
```

```
    public static void main (String a[]) throws IO
    Exception {
```

```
        FileInputStream fin = new FileInputStream ("Example.txt");
        byte [] bytes = new byte [20];
```

```
        int i;
```

```
        char c;
```

```
        i = fin.read (bytes);
```

```
        System.out.println ("Number of bytes read: " + i);
```

```
        for (byte b: bytes) {
```

```
            c = (char) b;
```

```
            System.out.print (c);
```

```
        }
```

```
    }
```

```
}
```

Done
4/3/24