#### //Prime Number Generation

```
import java.io.*;
import java.util.Scanner;
public class PrimeNum
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter an integer: ");
  int n = scanner.nextInt();
  System.out.println("Prime numbers up to " + n + ":");
  for (int i = 2; i \le n; i++)
   if (isPrime(i))
    System.out.println(i + " ");
 public static boolean isPrime(int num)
  if (num \ll 1)
   return false;
  for (int i = 2; i * i <= num; i++)
   if (num \% i == 0)
     return false;
    }
  return true;
 }
```

D:\II BCA>set path=C:\jdk1.5.0\bin

D:\II BCA > javac PrimeNum.java

 $D: \backslash II\ BCA > java\ PrimeNum$ 

Enter an integer: 20

Prime numbers up to 20:

2 3 5 7 11 13 17 19

#### //Matrix Multiplication.

```
import java.io.*;
import java.util.Scanner;
public class MatrixMultiplication
 public static void main(String[] args)
  int i,j,k;
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter the number of rows and columns in the first matrix: ");
  int r1 = scanner.nextInt();
  int c1 = scanner.nextInt();
  System.out.print("Enter the number of rows and columns in the second matrix: ");
  int r2 = scanner.nextInt();
  int c2 = scanner.nextInt();
  int a[][] = new int[r1][c1];
  int b[ ][ ]= new int[r2][c2];
  int c[][] = new int[r1][c1];
  if(c1 == r2)
   {
        System.out.println("\n Enter first matrix:\n");
        for(i=0; i< r1; ++i)
        for(j=0; j<c1; ++j)
        a[i][j] = scanner.nextInt();
        System.out.println("\n Enter second matrix:\n");
        for(i=0; i< r2; ++i)
        for(j=0; j<c2; ++j)
        b[i][j]= scanner.nextInt();
        System.out.println("\n The Multiplication result matrix is:\n");
        for(i=0; i< r1; ++i)
         for(j=0; j< c2; ++j)
         c[i][j]=0;
         for(k=0; k< c1; ++k)
         c[i][j]=c[i][j]+(a[i][k]*b[k][j]);
        System.out.print("\t"+c[i][j]);
   System.out.println("\n");
 }
```

```
else
System.out.println("\nSorry!!!! Matrix multiplication can't be done");
}

OUTPUT:

D:\II BCA >set path=C:\jdk1.5.0\bin
D:\II BCA >javac MatrixMultiplication.java
D:\II BCA >java MatrixMultiplication
Enter the number of rows and columns in the first matrix:
2
```

Enter the number of rows and columns in the second matrix:

2

Enter the elements of the first matrix:

3 5

Enter the elements of the second matrix:

2 4 6

Result of matrix multiplication:

20 2852 76

## //Displays the number of characters, lines and words in a text

```
import java.io.*;
import java.util.Scanner;
public class TextStat
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter a text: ");
  String text = scanner.useDelimiter("Press ctrl+Z").next();
  int cCount = text.length();
  int lCount = countLines(text);
  int wCount = countWords(text);
  System.out.println("Text statistics:");
  System.out.println("Characters: " + cCount);
  System.out.println("Lines: " + lCount);
  System.out.println("Words: " + wCount);
 public static int countLines(String text)
  String[] lines = text.split("\r?\n");
  return lines.length;
 }
 public static int countWords(String text)
  String[] words = text.split("\\s+");
  return words.length;
 }
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac TextStat.java

D:\II BCA > java TextStat Enter a text: All is Well The Lion is always Lion ^Z

Text statistics: Characters: 37

Lines: 2 Words: 8

#### //Random Numbers Generation

```
import java.io.*;
import java.util.Random;
import java.util.Scanner;
public class RandomNumGen
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter the lower limit: ");
  int LL = scanner.nextInt();
  System.out.print("Enter the upper limit: ");
  int UL = scanner.nextInt();
  Random random = new Random();
  int RN = random.nextInt(UL - LL + 1) + LL;
  System.out.println("Random number generated: " + RN);
  if (RN < (LL + (UL - LL) / 3))
   System.out.println("Random number is in the lower third of the range.");
   else if (RN < (LL + 2 * (UL - LL) / 3))
    System.out.println("Random number is in the middle third of the range.");
   }
   else
   {
    System.out.println("Random number is in the upper third of the range.");
 }
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac RandomNumGen.java

D:\II BCA > java RandomNumGen

Enter the lower limit: 1 Enter the upper limit: 10 Random number generated: 7

Random number is in the upper third of the range.

D:\II BCA > java RandomNumGen

Enter the lower limit: 5
Enter the upper limit: 10
Random number generated: 5

Random number is in the lower third of the range.

D:\II BCA > java RandomNumGen

Enter the lower limit: 2 Enter the upper limit: 8

Random number generated: 5

Random number is in the middle third of the range.

#### //String Manipulation

```
import java.io.*;
import java.util.Scanner;
public class StringManipulation
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter the first string: ");
  String str1 = scanner.nextLine();
  System.out.print("Enter the second string: ");
  String str2 = scanner.nextLine();
  char[ ] charArray1 = str1.toCharArray();
  char[ ] charArray2 = str2.toCharArray();
  System.out.println("Length of string 1: " + charArray1.length);
  System.out.println("Length of string 2: " + charArray2.length);
  System.out.print("Enter the position to find the character in string 1 (0-" +
                    (charArray1.length - 1) + "): ");
  int position = scanner.nextInt();
  scanner.nextLine();
  if (position >= 0 && position < charArray1.length)
   System.out.println("Character at position " + position + " in string 1: " +
                        charArray1[position]);
  }
 else
   System.out.println("Invalid position. Please enter a position between 0 and " +
                       (charArray1.length - 1));
  }
  char[] concatenatedArray = concatenate(charArray1, charArray2);
  System.out.println("Concatenated string: " + new String(concatenatedArray));
 public static char[] concatenate(char[] charArray1, char[] charArray2)
  char[] result = new char[charArray1.length + charArray2.length];
  System.arraycopy(charArray1, 0, result, 0, charArray1.length);
  System.arraycopy(charArray2, 0, result, charArray1.length, charArray2.length);
  return result:
 }
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac StringManipulation.java

D:\II BCA > java StringManipulation

Enter the first string: II BCA

Enter the second string: kumar

Length of string 1: 6

Length of string 2: 5

Enter the position to find the character in string 1 (0-5): 3

Character at position 3 in string 1: e

Concatenated string: II BCAkumar

#### //String Operations using String class.

```
import java.io.*;
import java.util.Scanner;
public class StringOperations
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter the first string: ");
  String str1 = scanner.nextLine();
  System.out.print("Enter the second string: ");
  String str2 = scanner.nextLine();
  String conString = str1 + "" + str2;
  System.out.println("Concatenated string: " + conString);
  System.out.print("Enter a substring to search in string 1: ");
  String substring = scanner.nextLine();
  if (str1.contains(substring))
  {
   System.out.println("Substring found in string 1");
  }
  else
   System.out.println("Substring not found in string 1");
 System.out.print("Enter the starting index of the substring to extract from string1: ");
 int sIndex = scanner.nextInt();
 scanner.nextLine();
 System.out.print("Enter the ending index of the substring to extract from string1: ");
 int eIndex = scanner.nextInt();
 scanner.nextLine();
 if (sIndex \ge 0 \&\& eIndex \ge 0 \&\& sIndex < str1.length() \&\& eIndex <
       str1.length() && sIndex <= eIndex)
   {
    String exSubstring = str1.substring(sIndex, eIndex);
    System.out.println("Extracted substring: " + exSubstring);
   }
  else
  {
   System.out.println("Invalid indices. Please enter valid indices between 0 and " +
                        (str1.length() - 1));
  }
 }
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac StringOperations.java

D:\II BCA > java StringOperations

Enter the first string: Vinod Enter the second string: kumar Concatenated string: Vinod kumar

Enter a substring to search in string 1: no

Substring found in string 1

Enter the starting index of the substring to extract from string 1: 0 Enter the ending index of the substring to extract from string 1: 3

Extracted substring: Vin

#### //String Operations using String Buffer class

```
import java.io.*;
import java.util.Scanner;
public class StringBufferOperations
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter a string: ");
  String str = scanner.nextLine( );
  StringBuffer stringBuffer = new StringBuffer(str);
  System.out.println("Length of the string: " + stringBuffer.length());
  stringBuffer.reverse( );
  System.out.println("Reversed string: " + stringBuffer);
  System.out.print("Enter a substring to delete from the string: ");
  String substring = scanner.nextLine();
  int index = stringBuffer.indexOf(substring);
  if (index !=-1)
   stringBuffer.delete(index, index + substring.length());
   System.out.println("String after deleting the substring: " + stringBuffer);
  else
   System.out.println("Substring not found in the string");
  }
 }
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac StringBufferOperations.java

D:\II BCA > java StringBufferOperations D:\II BCA > java StringBufferOperations Enter a string: Welcome

Length of the string: 7
Reversed string: emocleW

Enter a substring to delete from the string: oc String after deleting the substring: emleW

#### //Multithread Application

```
import java.io.*;
import java.util.Random;
class Shared
 private int number;
 private boolean isEven;
 private boolean stop;
 public synchronized void setNumber(int number)
  this.number = number;
  this.isEven = (number \% 2 == 0);
  notifyAll();
 public synchronized int getNumber( )
  while (number == 0 \&\& !stop)
    try
      wait();
    catch (InterruptedException e)
           Thread.currentThread().interrupt();
    }
  }
  if (stop)
   return 0;
  int temp = number;
  number = 0;
  return temp;
 public synchronized boolean isEven()
  return is Even;
```

```
public synchronized void setStop(boolean stop)
  this.stop = stop;
  notifyAll();
 public synchronized boolean isStop( )
  return stop;
class GeneratorThread extends Thread
 private Shared shared;
 private Random random;
 private int count;
 public GeneratorThread(Shared shared)
  this.shared = shared;
  this.random = new Random();
  this.count = 0;
 }
 public void run( )
  while (count < 5)
   int number = random.nextInt(10);
   shared.setNumber(number);
   System.out.println("Generated number: " + number);
   count++;
   try
    Thread.sleep(100);
   catch (InterruptedException e)
    Thread.currentThread( ).interrupt( );
  }
  shared.setStop(true);
 }
}
```

```
class SquareThread extends Thread
 private Shared shared;
 public SquareThread(Shared shared)
  this.shared = shared;
 public void run( )
  while (true)
   int number = shared.getNumber( );
   if (shared.isStop( ))
     break;
   if (shared.isEven( ))
    int square = number * number;
    System.out.println("Square of " + number + ": " + square);
  }
class CubeThread extends Thread
 private Shared shared;
 public CubeThread(Shared shared)
  this.shared = shared;
 public void run( )
  while (true)
   int number = shared.getNumber( );
   if (shared.isStop( ))
    break;
    }
```

```
if (!shared.isEven( ))
    int cube = number * number * number;
    System.out.println("Cube of " + number + ": " + cube);
  }
 }
}
public class MultiThreadApp1
 public static void main(String[] args)
  Shared shared = new Shared();
  GeneratorThread gThread = new GeneratorThread(shared);
  SquareThread sThread = new SquareThread(shared);
  CubeThread cThread = new CubeThread(shared);
  gThread.start();
  sThread.start();
  cThread.start();
 }
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

 $D: \ \ II \ BCA > javac \ MultiThreadApp1.java$ 

D:\II BCA > java MultiThreadApp1

Generated number: 9 Generated number: 5

Cube of 5: 125

Generated number: 2 Generated number: 6 Generated number: 6

Square of 6: 36

#### // Inter Thread Communication.

```
import java.io.*;
// Thread to print numbers 1 to 10
class Thread1 extends Thread
 public void run( )
  for (int i = 1; i \le 10; i++)
   System.out.println("Thread1: " + i);
     Thread.sleep(100);
   catch (InterruptedException e)
     Thread.currentThread().interrupt();\\
  }
// Thread to print numbers 90 to 100
class Thread2 extends Thread
 public void run( )
  for (int i = 90; i \le 100; i++)
   System.out.println("Thread2: " + i);
   try
     Thread.sleep(100);
   catch (InterruptedException e)
     Thread.currentThread( ).interrupt( );
    }
  }
 }
```

```
public class MultiThreadApp2
{
  public static void main(String[] args)
  {
    Thread1 t1 = new Thread1();
    Thread2 t2 = new Thread2();
    t1.start();
    t2.start();
  }
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac MultiThreadApp2.java

D:\II BCA > java MultiThreadApp2

Thread1: 1

Thread2: 90

Thread2: 91

Thread1: 2

Thread2: 92

Thread1: 3

Thread1: 4

Thread2: 93

Thread2: 94

Thread1: 5

Thread2: 95

Thread1: 6

Thread2: 96

Thread1: 7

Thread2: 97

Thread1: 8

Thread1: 9

Thread2: 98

Thread1: 10

Thread2: 99

Thread2: 100

#### //Exception Handling

```
import java.io.*;
public class ExceptionDemo
 public static void main(String[] args)
  // a. Arithmetic Exception
  try
   int a = 10;
   int b = 0;
   int result = a / b;
   System.out.println("Result: " + result);
  catch (ArithmeticException e)
   System.out.println("ArithmeticException caught: " + e.getMessage());
 // b. Number Format Exception
  try
   String str = "bca";
   int num = Integer.parseInt(str);
   System.out.println("Number: " + num);
  catch (NumberFormatException e)
   System.out.println("NumberFormatException caught: " + e.getMessage());
  // c. ArrayIndexOutOfBoundsException
  try
   int[] arr = new int[5];
   System.out.println(arr[10]);
  catch (ArrayIndexOutOfBoundsException e)
   System.out.println("ArrayIndexOutOfBoundsException caught: "
                       + e.getMessage());
  }
```

```
// d. NegativeArraySizeException
try
{
  int[] arr = new int[-5];
}
  catch (NegativeArraySizeException e)
{
    System.out.println("NegativeArraySizeException caught: " + e.getMessage());
}
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac ExceptionDemo.java

D:\II BCA > java ExceptionDemo

ArithmeticException caught: / by zero

NumberFormatException caught: For input string: "bca"

ArrayIndexOutOfBoundsException caught: 10

NegativeArraySizeException caught: null

#### // File Handling

```
import java.io.File;
import java.io.IOException;
import java.util.Scanner;
public class FileInfo
 public static void main(String[] args)
  Scanner scanner = new Scanner(System.in);
  System.out.println("Enter a file name:");
  String fileName = scanner.next();
  File file = new File(fileName);
  System.out.println("File Name: " + file.getName());
  System.out.println("File Exists: " + file.exists());
  System.out.println("File is Readable: " + file.canRead());
  System.out.println("File is Writable: " + file.canWrite());
  if (file.isFile())
  {
   System.out.println("File Type: Regular File");
   else if (file.isDirectory())
     System.out.println("File Type: Directory");
     {
      System.out.println("File Type: Unknown");
  System.out.println("File Length: " + file.length() + " bytes");
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac FileInfo.java

D:\II BCA > java FileInfo

Enter a file name:

FileInfo.java

File Name: FileInfo.java

File Exists: true

File is Readable: true File is Writable: true File Type: Regular File File Length: 890 bytes

D:\II BCA > java FileInfo

Enter a file name:

rose.txt

File Name: rose.txt File Exists: false

File is Readable: false File is Writable: false File Type: Unknown File Length: 0 bytes

# // Frames and Control PROGRAM:

```
import java.awt.*;
import java.awt.event.*;
public class TextEditor extends Frame
{
  private TextArea textArea;
  private Choice fontSizeChoice;
  private Choice fontStyleChoice;
  private Button applyButton;
  public TextEditor( )
    setTitle("Text Editor");
    setSize(600, 400);
    setLayout(new BorderLayout( ));
    textArea = new TextArea( );
    add(textArea, BorderLayout.CENTER);
    Panel controlPanel = new Panel();
    controlPanel.setLayout(new FlowLayout( ));
    fontSizeChoice = new Choice( );
    for (int i = 8; i \le 72; i += 2)
       fontSizeChoice.add(String.valueOf(i));
     }
    controlPanel.add(new Label("Font Size:"));
    controlPanel.add(fontSizeChoice);
    fontStyleChoice = new Choice( );
    fontStyleChoice.add("Plain");
    fontStyleChoice.add("Bold");
    fontStyleChoice.add("Italic");
    controlPanel.add(new Label("Font Style:"));
    controlPanel.add(fontStyleChoice);
    applyButton = new Button("Apply");
    controlPanel.add(applyButton);
    applyButton.addActionListener(new ActionListener()
       public void actionPerformed(ActionEvent e)
         applyFont();
    add(controlPanel, BorderLayout.SOUTH);
    addWindowListener(new WindowAdapter()
       public void windowClosing(WindowEvent we)
         dispose();
     });
```

```
fontSizeChoice.select("12");
    fontStyleChoice.select("Plain");
  private void applyFont( )
    int fontSize = Integer.parseInt(fontSizeChoice.getSelectedItem( ));
    String fontStyle = fontStyleChoice.getSelectedItem( );
    int style = Font.PLAIN;
    if (fontStyle.equals("Bold"))
       style = Font.BOLD;
     else if (fontStyle.equals("Italic"))
       style = Font.ITALIC;
    Font font = new Font("Serif", style, fontSize);
    textArea.setFont(font);
  public static void main(String[] args)
    TextEditor editor = new TextEditor( );
    editor.setVisible(true);
  }
}
```

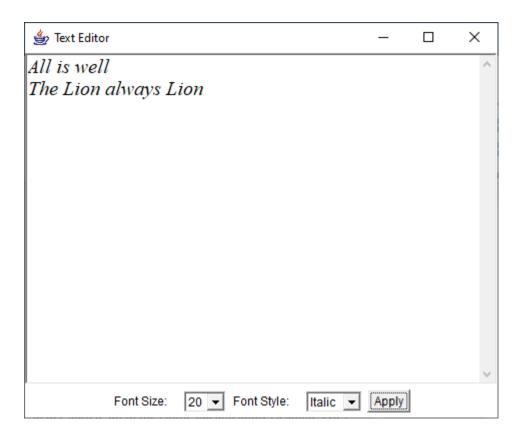
D:\II BCA>set path=C:\jdk1.5.0\bin

D:\II BCA>javac TextEditor.java

D:\II BCA>java TextEditor







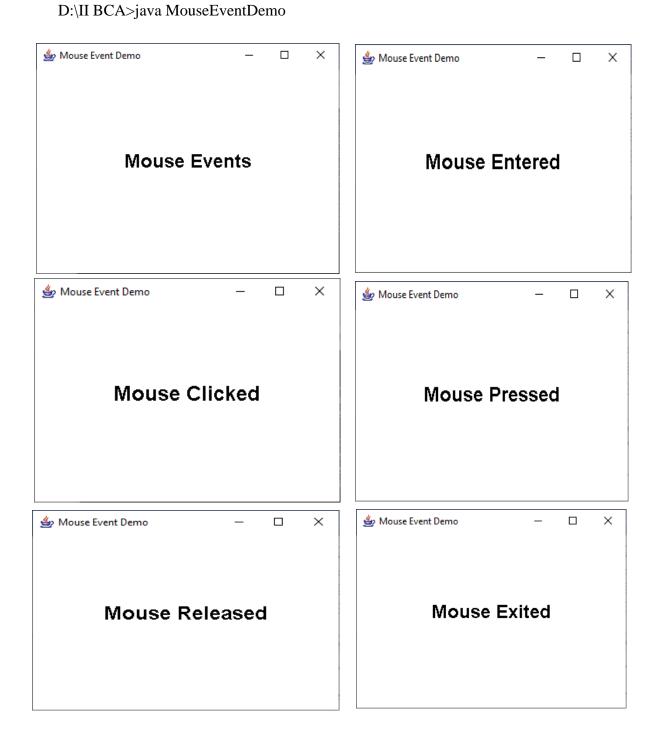
#### // Mouse Event Handling

```
import java.awt.*;
import java.awt.event.*;
public class MouseEventDemo extends Frame
  private String eventName = "Mouse Events";
  public MouseEventDemo( )
    setTitle("Mouse Event Demo");
    setSize(400, 300);
    setLayout(new BorderLayout());
    addMouseListener(new MouseAdapter( )
      public void mouseClicked(MouseEvent e)
         eventName = "Mouse Clicked";
         repaint();
      public void mousePressed(MouseEvent e)
         eventName = "Mouse Pressed";
         repaint();
      public void mouseReleased(MouseEvent e)
         eventName = "Mouse Released";
         repaint();
      public void mouseEntered(MouseEvent e)
         eventName = "Mouse Entered";
         repaint();
      public void mouseExited(MouseEvent e)
         eventName = "Mouse Exited";
         repaint();
    addWindowListener(new WindowAdapter()
      public void windowClosing(WindowEvent we)
         dispose();
    });
```

```
public void paint(Graphics g)
{
    Font font = new Font("Arial", Font.BOLD, 24);
    g.setFont(font);
    FontMetrics metrics = g.getFontMetrics(font);
    int x = (getWidth() - metrics.stringWidth(eventName)) / 2;
    int y = (getHeight() - metrics.getHeight()) / 2 + metrics.getAscent();
    g.drawString(eventName, x, y);
}

public static void main(String[] args)
{
    MouseEventDemo demo = new MouseEventDemo();
    demo.setVisible(true);
}
```

D:\II BCA>set path=C:\jdk1.5.0\bin
D:\II BCA>javac MouseEventDemo.java



```
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class Calculator extends JFrame
 private JTextField resultField;
 private double number1, number2, result;
 private char operation;
 public Calculator( )
  resultField = new JTextField(20);
  resultField.setEditable(false);
  JPanel buttonPanel = new JPanel();
  buttonPanel.setLayout(new GridLayout(4, 4));
  "0", ".", "=", "+"};
  for (String button: buttons)
  {
   JButton btn = new JButton(button);
   btn.addActionListener(new ButtonListener());
   buttonPanel.add(btn);
  }
  add(resultField, BorderLayout.NORTH);
  add(buttonPanel, BorderLayout.CENTER);
  setSize(200, 200);
  setDefaultCloseOperation(EXIT_ON_CLOSE);
  setVisible(true);
 }
 private class ButtonListener implements ActionListener
  public void actionPerformed(ActionEvent e)
   String command = e.getActionCommand( );
   if (command.equals("="))
   {
    try
     number2 = Double.parseDouble(resultField.getText( ));
     switch (operation)
     {
```

```
case '+':
        result = number1 + number2;
        break;
       case '-':
        result = number1 - number2;
        break;
       case '*':
        result = number1 * number2;
        break;
       case '/' :
        if (number 2!= 0)
         result = number1 / number2;
        else
         resultField.setText("Error: Division by zero");
         return;
        }
        break;
     resultField.setText(String.valueOf(result));
    catch (NumberFormatException ex)
     resultField.setText("Error: Invalid input");
    }
  else if (command.equals("+") || command.equals("-") || command.equals("*") ||
         command.equals("/"))
  {
    number1 = Double.parseDouble(resultField.getText());
    operation = command.charAt(0);
    resultField.setText("");
   } else {
    resultField.setText(resultField.getText() + command);
   }
  }
 public static void main(String[] args)
  new Calculator();
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA > javac Calculator.java

D:\II BCA >java Calculator

<b>*</b>	_		×
5			
7	8	9	I
4	5	6	*
1	2	3	-
0		=	+

_		×
8	9	ı
5		*
2	3	-
	=	+
		8 9 5 6 2 3

<b>≝</b>	_		×
3			
7	8	9	J
4	5	6	*
1	2	3	-
0		=	+

<b>\$</b>	_		×
8.0			
7	8	9	I
4	5	6	*
1	2	3	-
0			+

#### // Simulation of Traffic light using Java Swing.

```
import java.io.*;
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
public class TrafficLight extends JFrame
 private JRadioButton redButton, yellowButton, greenButton;
 private JLabel messageLabel;
 public TrafficLight()
  // Create a panel for the message label
  JPanel messagePanel = new JPanel();
  messagePanel.setLayout(new FlowLayout());
  messageLabel = new JLabel("", SwingConstants.CENTER);
  messageLabel.setPreferredSize(new Dimension(200, 30));
  messagePanel.add(messageLabel);
  // Create a panel for the radio buttons
  JPanel buttonPanel = new JPanel();
  buttonPanel.setLayout(new FlowLayout());
  redButton = new JRadioButton("Red");
  yellowButton = new JRadioButton("Yellow");
  greenButton = new JRadioButton("Green");
  ButtonGroup group = new ButtonGroup();
  group.add(redButton);
  group.add(yellowButton);
  group.add(greenButton);
  buttonPanel.add(redButton);
  buttonPanel.add(yellowButton);
  buttonPanel.add(greenButton);
  // Add action listeners to the radio buttons
  redButton.addActionListener(new RadioButtonListener());
  yellowButton.addActionListener(new RadioButtonListener());
  greenButton.addActionListener(new RadioButtonListener());
  // Add the panels to the frame
  add(messagePanel, BorderLayout.NORTH);
  add(buttonPanel, BorderLayout.CENTER);
  setSize(250, 150);
  setDefaultCloseOperation(EXIT ON CLOSE);
  setVisible(true);
 }
```

```
private class RadioButtonListener implements ActionListener
  public void actionPerformed(ActionEvent e)
   if (redButton.isSelected())
    messageLabel.setText("STOP");
    messageLabel.setForeground(Color.RED);
   else if (yellowButton.isSelected())
    messageLabel.setText("READY");
    message Label.set Foreground (Color. YELLOW);\\
   else if (greenButton.isSelected())
    messageLabel.setText("GO");
    messageLabel.setForeground(Color.GREEN);
   }
  }
 }
public static void main(String[] args)
  new TrafficLight();
 }
}
```

D:\II BCA >set path=C:\jdk1.5.0\bin

D:\II BCA >javac TrafficLight.java

D:\II BCA > java TrafficLight





