Exam2\_1:

**public** **class** Exam2\_1 {

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

**int**[] setA = {8, 3, 7, 4, 1};

**int**[] setB = {3,8,11,12,9,13};

OrderedList O1 = **new** OrderedList();

OrderedList O2 = **new** OrderedList();

**for**(**int** i = 0; i<setA.length; i++ ){

O1.insertOrder(setA[i]);

}

**for**(**int** j = 0; j<setB.length; j++){

O2.insertOrder(setB[j]);

}

System.***out***.print("List1->");

O1.display();

System.***out***.println();

System.***out***.print("List2->");

O2.display();

node order1=O1.order, order2 = O2.order;

System.***out***.println();

System.***out***.print("ListA|B->");

**while**(order1 != **null** && order2 != **null**){

**if**(order1.info == order2.info){

System.***out***.print(order1.info + "->");

order1 = order1.next;

order2 = order2.next;

}**else** **if**(order1.info > order2.info){

order2 = order2.next;

}**else** **if**(order2.info > order1.info){

order1 = order1.next;

}

}

System.***out***.print("null");

}

}

Output:

List1->1->3->4->7->8->null

List2->3->8->9->11->12->13->null

ListA|B->3->8->null

Exam2\_2

import java.awt.Color;

import java.awt.Container;

import java.awt.Font;

import java.awt.Graphics;

import javax.swing.JFrame;

public class Exam2\_2 {

public static void main(String[] args){

JFrame frame = new JFrame("Exam2\_2");

frame.setSize(500, 500);

frame.setLocation(0,0);

//frame.pack();

frame.setVisible(true);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

Container cPane = frame.getContentPane();

Graphics g = cPane.getGraphics();

int length = 50;

int height = 35;

int[] x = {0,0,35,85,120,120,85,35};

int[] y = {35,85,120,120,85,35,0,0};

g.setColor(Color.RED);

g.fillPolygon(x ,y, 8);

g.setColor(Color.white);

Font f = new Font("Helvetica", Font.BOLD,35);

g.setFont(f);

g.drawString("STOP", 10, 60);

}

}

output:



Exam2\_3

**import** java.applet.Applet;

**import** java.awt.Button;

**import** java.awt.Checkbox;

**import** java.awt.CheckboxGroup;

**import** java.awt.Choice;

**import** java.awt.Label;

**import** java.awt.List;

**import** java.awt.TextArea;

**import** java.awt.TextField;

**import** java.awt.event.ActionEvent;

**import** java.awt.event.ActionListener;

**public** **class** Exam2\_3 **extends** Applet **implements** ActionListener{

Label

title = **new** Label("Hospitally Desk"),

fLine = **new** Label("Name Day Month Year(2000-2016)"),

choose = **new** Label("Choose your gift"),

chooseColor = **new** Label("Choose your Favourite Color"),

press = **new** Label("Press to display");

TextField

txtName = **new** TextField();

TextArea

txtOrder = **new** TextArea();

Choice

dList = **new** Choice(),

mList = **new** Choice(),

yList = **new** Choice();

CheckboxGroup cbg = **new** CheckboxGroup();

//create checkboxes and add to group

Checkbox cake = **new** Checkbox("Cake", cbg, **true**);

Checkbox champaign = **new** Checkbox("Champaign", cbg, **false**);

Checkbox ice = **new** Checkbox("Ice Cream", cbg, **false**);

List

cList = **new** List(4,**false**);

Button

pbtn = **new** Button("press");

**public** **void** init(){

setLayout(**null**);

title.setBounds(150,10,200,20); add(title);

fLine.setBounds(70,50,400,20); add(fLine);

//first level

**int** y = 80;

**int** height = 20;

txtName.setBounds(50,y,100,height); add(txtName);

**for**(**int** i = 1; i < 31; i++){

dList.add(Integer.*toString*(i));

}

**for**(**int** i = 1; i<13; i++){

mList.add(Integer.*toString*(i));

}

**for**(**int** i = 2000; i<2017; i++){

yList.add(Integer.*toString*(i));

}

**int** x = 200;

dList.setBounds(x,y,50, height);

mList.setBounds(x+70,y,50,height);

yList.setBounds(x+70\*2,y,70,height);

add(dList);

add(mList);

add(yList);

//second level

**int** sY = 110;

choose.setBounds(50, sY, 100,height); add(choose);

**int** sX = 170;

cake.setBounds(sX,sY,70,30);

champaign.setBounds(sX+100,sY,70,30);

ice.setBounds(sX+100\*2,sY,70,30);

add(cake);

add(champaign);

add(ice);

//third level

**int** tY = 140;

chooseColor.setBounds(50,tY,150,20); add(chooseColor);

cList.add("red");

cList.add("yellow");

cList.add("green");

cList.add("blue");

cList.setBounds(50,tY+40,150,80); add(cList);

press.setBounds(240,tY,100,20); add(press);

pbtn.setBounds(350,tY,100,20); add(pbtn);

txtOrder.setBounds(240,tY+40,200,100); add(txtOrder);

pbtn.addActionListener(**this**);;

}

@Override

**public** **void** actionPerformed(ActionEvent e) {

// **TODO** Auto-generated method stub

String name, day, month, year, gift, color,Order;

name = txtName.getText();

day=dList.getSelectedItem();

month = mList.getSelectedItem();

year = yList.getSelectedItem();

color = cList.getSelectedItem();

gift = **new** String();

**if**( cake.getState())

gift = "Cake";

**else** **if**(champaign.getState())

gift = "Champaign";

**else** **if**(ice.getState())

gift= "Ice Cream";

**int** old = 2016-Integer.*valueOf*(year);

Order = "Hello " + name +"\n"

+"On your " + old + "th birthday," + month +" "+ day + " 2016" + "\n"

+"We will send you a " + gift + "\n"

+ "in a " + color + " box. management";

txtOrder.setText(Order);

}

}

Output:

