Southern Luzon State University
College Of Engineering
Computer Engineering Department

PROGRAMMING PROJECT

CpE05 - Object Oriented Programming
SY 2022-2023

Section: GF **Schedule:** 7:30 to 10:30 AM

Name:	Work Assigned:
1. Devilles, Jade Wesley J.	Guide for planting, Paperwork's
2. Edad, Ederson M.	Information of the crop
3. Estrada, Alyssa	Microfinancing, Compiling
4. Gonzales, Lizette E.	Calculation of Expenses, Compiling

APPLICATION TITLE:

INFOCROP

PROJECT DESCRIPTION:

InfroCrop is an application in which the user particularly the farmer, will be able to further know about the information and guide for farming. This application has different function such as *Information* where in the farmer/user will be able to know what are the crops that are best to plant or what are the seasonal plant. another function is the *Guide* in which they will be informed how to grow a particular plant that are not familiar to them. The other function is for *Calculation*, here the farmers will be able to compute how much would be the possible expenses if they plant a particular crop or how much will they invest or budget for planting a particular crop. Lastly is the *Lend Me*, this function allows the farmer to know what banks/microfinance/etc. are available where they can borrow the money if ever, they are shorted in budget

SOURCE CODE:

Main Program

```
package project2;

import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;

public class mainprogram {

        public static void main(String[] args) {
                new Homepage();

        }

}
```

```
//Main page
class Homepage implements ActionListener {

	private JFrame frame;
	private JButton start, credits, exit;

	public Homepage(){

		frame= new JFrame("Info-Crop");
		frame.setSize(1050,700);
		frame.setResizable(false);
		frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
		frame.setLocation(200,0);
		frame.setContentPane(new JLabel(new ImageIcon("C:\\Users\\Lizette
E. Gonzales\\workspace\\SampleProject\\src\\icon\\background.png")));
		frame.setLayout(new FlowLayout());
		frame.setLayout(null);

		start = new JButton("");
		start.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\start.png"));
		start.setBounds(450,150,200,50);
		frame.add(start);
		start.addActionListener(this);
		start.setName("start");

		credits = new JButton("");
		credits.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\credit.png"));
		credits.setBounds(450,300,200,50);
		frame.add(credits);
		credits.addActionListener(this);
		credits.setName("credits");

		exit = new JButton("");
		exit.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\exit.png"));
		exit.setBounds(450,450,200,50);
		frame.add(exit);
		exit.addActionListener(this);
		exit.setName("exit");

		frame.setVisible(true);

	}
	public void actionPerformed(ActionEvent e) {
		JButton choice = (JButton)e.getSource();
		String choices = choice.getName();

		if (choices == "start"){
			new Start();
```

```
                frame.dispose();
            }
            else if(choices == "credits"){
                new credit();
                frame.dispose();

            }
            else if(choices == "exit"){
                System.exit(0);
            }

        }
}



// Start Button Page
class Start implements ActionListener{
        private JFrame frame;
        private JButton guide, info, ledme, cost, back;

        public Start(){

            frame= new JFrame("Info-Crop");
            frame.setSize(1050,700);
            frame.setResizable(false);
            frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            frame.setLocation(200,0);
            frame.setContentPane(new JLabel(new ImageIcon("C:\\Users\\Lizette
E. Gonzales\\workspace\\SampleProject\\src\\icon\\2.png")));
            frame.setLayout(new FlowLayout());
            frame.setLayout(null);

            guide = new JButton("");
            guide.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\guide.png"));
            guide.setBounds(350,150,400,50);
            frame.add(guide);
            guide.addActionListener(this);
            guide.setName("guide");

            info = new JButton("");
            info.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\info.png"));
            info.setBounds(350,250,400,50);
            frame.add(info);
            info.addActionListener(this);
            info.setName("info");

            ledme = new JButton("");
            ledme.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\ledme.png"));
            ledme.setBounds(350,350,400,50);
```

```
		frame.add(ledme);
		ledme.addActionListener(this);
		ledme.setName("ledme");

		cost = new JButton("");
		cost.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\cost.png"));
		cost.setBounds(350,450,400,50);
		frame.add(cost);
		cost.addActionListener(this);
		cost.setName("cost");

		back = new JButton("");
		back.setIcon(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconback.png"));
		back.setBackground(Color.GREEN);
		back.setBounds(50,610,170,50);
		frame.add(back);
		back.addActionListener(this);
		back.setName("back");


		frame.setVisible(true);

	}
	public void actionPerformed(ActionEvent e) {
		JButton choice = (JButton)e.getSource();
		String choices = choice.getName();

		if (choices == "guide"){
			new InfoC();
			frame.dispose();
		}
		else if(choices == "info"){
			new Information1();
			frame.dispose();

		}
		else if(choices == "ledme"){
			new lend();
			frame.dispose();
		}
		else if(choices == "cost"){
			new ProductionCost();
			frame.dispose();
		}
		else if(choices == "back"){
			new Homepage();
			frame.dispose();
		}

	}
}
```

Credit Button

```
package project2;

import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;

//Credit Button Page
class credit implements ActionListener {

	private JFrame frame;
	private JButton back;

	public credit(){
		frame= new JFrame("Info-Crop");
		frame.setSize(1050,700);
		frame.setResizable(false);
		frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
		frame.setLocation(200,0);
		frame.setContentPane(new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\icon\\credits_bg.png")));
		frame.setLayout(new FlowLayout());
		frame.setLayout(null);

		back = new JButton("");
		back.setIcon(new               ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconback.png"));
		back.setBackground(Color.GREEN);
		back.setBounds(50,610,170,50);
		frame.add(back);
		back.addActionListener(this);
		back.setName("back");

		frame.setVisible(true);
	}

	public void actionPerformed(ActionEvent e) {

		JButton choice = (JButton)e.getSource();
		String choices = choice.getName();

		if (choices == "back"){
			new Homepage();
			frame.dispose();

		}
		else if(choices == "info"){

		}

	}
}
```

Jade’s Part

```
package project2;

import java.awt.event.*;
import javax.swing.*;
import java.awt.*;

//Guide Button Page
class InfoC implements ActionListener {
```

```
	private JButton coconut, camote, cassava, corn, mango, palay, pineapple, potato,
sugarcane, banana, back;
	JLabel guide;
	JTextArea display2;
	JFrame frame, fr1;
	JScrollPane scroll;
	JPanel display3;

	public InfoC(){

		frame = new JFrame();
		frame.setTitle("InfoCrop");
		frame.setResizable(false);
		frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
		frame.setSize(1050,700);
		frame.setContentPane(new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\3.png")));
		frame.setLayout(new FlowLayout());
		frame.setLocation(200,0);
		frame.setLayout(null);

		guide = new JLabel("GUIDE HOW TO PLANTS THE FOLLOWING CROP:");
		guide.setFont(new Font("Comic Sans MS", Font.BOLD, 20));
		guide.setForeground(Color.BLACK);
		guide.setBounds(300,20,800,50);

		back = new JButton("");
		back.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconback.png"));
		back.setBackground(Color.GREEN);
		back.setBounds(50,630,170,40);
		frame.add(back);
		back.addActionListener(this);
		back.setName("back");

		banana = new JButton("");
		banana.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\banana1.png"));
		banana.setBounds(50,70,130,50);
		banana.addActionListener(this);
		banana.setName("banana");

		coconut = new JButton("");
		coconut.setIcon(new             ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\coconut1.png"));
		coconut.setBounds(50,125,130,50);
		coconut.addActionListener(this);
		coconut.setName("coconut");

		camote = new JButton("");
		camote.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\camote1.png"));
		camote.setBounds(50,180,130,50);
		camote.addActionListener(this);
		camote.setName("camote");

		cassava = new JButton("");
		cassava.setIcon(new             ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\cassava1.png"));
		cassava.setBounds(50,235,130,50);
		cassava.addActionListener(this);
		cassava.setName("cassava");

		corn = new JButton("");
		corn.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\corn1.png"));
		corn.setBounds(50,290,130,50);
```

```
            corn.addActionListener(this);
            corn.setName("corn");

            mango = new JButton("");
            mango.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\mango1.png"));
            mango.setBounds(50,345,130,50);
            mango.addActionListener(this);
            mango.setName("mango");

            palay = new JButton("");
            palay.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\palay1.png"));
            palay.setBounds(50,400,130,50);
            palay.addActionListener(this);
            palay.setName("palay");

            pineapple = new JButton("");
            pineapple.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\pineapple1.png"));
            pineapple.setBounds(50,455,130,50);
            pineapple.addActionListener(this);
            pineapple.setName("pineapple");

            potato = new JButton("");
            potato.setIcon(new             ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\potato1.png"));
            potato.setBounds(50,510,130,50);
            potato.addActionListener(this);
            potato.setName("potato");

            sugarcane = new JButton("");
            sugarcane.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\JADE\\sugarcane1.png"));
            sugarcane.setBounds(50,565,130,50);
            sugarcane.addActionListener(this);
            sugarcane.setName("sugarcane");


            frame.add(guide);
            frame.add(banana);
            frame.add(coconut);
            frame.add(camote);
            frame.add(cassava);
            frame.add(corn);
            frame.add(mango);
            frame.add(palay);
            frame.add(pineapple);
            frame.add(potato);
            frame.add(sugarcane);


            display2 = new JTextArea();
            display2.setEditable(false);
            display2.setFont(new Font("Comic Sans MS", Font.BOLD, 20));
            display2.setForeground(Color.BLACK);
            display2.setBounds(200,70,800,550);
            display2.setBackground(Color.ORANGE);
            frame.add(display2);

            scroll = new JScrollPane(display2);
            scroll.setBounds(200,70,800,550);
            frame.add(scroll);


            frame.setVisible(true);
      }
```

```
	public void actionPerformed(ActionEvent e)
	{
		JButton but = (JButton)e.getSource();
		String buts = but.getName();
		if (buts == "banana") {

			display2.setText("(Step 1 Soaking) Give the seeds a headstart by softening and warming them \nup. Put the seeds in a bowl and cover them with warm water, changing the \nwater when it cools down. Leave the seeds to soak for 48 hours to help the \nembryo sprout."
					+ "\n(Step 2 Prepare) Put seeds in a seed tray indoors. Use potting soil with \nlots of organic compost and more than half sandy/airy loam. As the seed \nsprouts and matures, it will need the nutrients provided by the compost."
					+ "\n(Step 2 Sow) Sow seeds 1/4 inches deep in the tray. Sowing seeds \noutdoors in a bed is not possible unless the soil temperature remains above \n68 degrees Fahrenheit."
					+ "\n(Step 2 Water) Water the tray so that the soil becomes moist, but not \nsoggy. Take care not to drown the seed, only maintain conditions that are \ndamp as the seed settles in and begins to germinate. Soil that is \ntoo wet can cause the seed to rot"
					+ "\n(Step 2 Pay Attention to Temperature) Use a heat mat on a timer to maintain \nan indoor soil temperature of at least 60 degrees Fahrenheit. Depending \non the variety of the banana, it may need as much as 19 hours of cool \ntemperatures and only 5 hours of warm, but research your seed to maintain \nthe correct ratio."
					+ "\n(Step 2 Give it Time) You can't rush banana seed germination. Depending on \nyour variety, seeds could germinate in two to three weeks or it could happen \nin two or more months.");
		}
		else if  (buts == "coconut") {
			display2.setText("(Step 1) Choose the perfect nut to incubate. The ideal \nnut will have lots of water inside that will slosh around when you shake it. \nMake sure that the nut still in its husk. You can use a coconut that \nhas dropped to the ground or one from a store."
					+ "\n(Step 2) Place the coconut in a bucket of lukewarm water. Use a stone or \nweight to keep the coconut submerged. Leave the nut in the bucket for 3-4 \ndays. This process will soften the coconut and accelerate the germination \nprocess."
					+ "\n(Step 3) Fill a zip-lock plastic bag with 1 cup (240 mL) of water. Place the \nnut in the bag and seal it. Store the bag in a warm, dark location for up to \n3 months. An example of a good place to store the coconut is \nby a water heater."
					+ "\n(Step 4) Check on the coconut every week for germination. Once the nut has \nsprouted and started to grow roots, gently wrap a damp paper towel around \nthe roots and place the seed back into the bag. The seed will be fully \ndeveloped when the sprout is approximately as long as your finger and the \nroots have reached a length of 6 inches (15 cm) to 8 inches (20 cm)."
					+ "\n(Step 5) Mix your planting soil. Use a mixture of half potting soil and half \nsand. Also add some fine gravel or vermiculite to help aerate the soil. If \nyou plan on planting your coconut outside, you do not need to use \npremixed soil. Find a place outside that has loose, well-draining soil. You can \nalso buy a specialized potting soil, such as Kokohum.");

		}
		else if  (buts == "camote") {
			display2.setText("(Step 1) Create raised mounds 6 to 8 inches tall and about 12 inches wide. "
					+ "\n(Step 2) Plan 3 feet between mounds so there is enough space for \nvines to run. "
					+ "\n(Step 3) Plant the slips on a warm, overcast day, when the soil temperature \nhas reached 60°F (15°C). "
					+ "\n(Step 4) Break off the lower leaves, leaving only the top ones."
					+ "\n(Step 5) Set the slips deep enough to cover the roots and the stem up to the \nleaves. Sweet potatoes will form on the nodes."
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                                    +  "\n(Step  6)  Water  with  a  high-phosphorus  liquid
fertilizer, then water \ngenerously for 7 to 10 days to make sure that the plants root
well."
                                    + "\n(Step 7) Side-dress the sweet potato plants 3 to 4
weeks after transplanting \nwith 5-10-10 fertilizer. If you have sandy soil, use more."
                                    +  "\n(Step  8)  Weed  the  sweet  potato  beds  regularly,
starting 2 weeks after \nplanting."
                                    + "\n(Step 9) Avoid deep digging with a hoe or other tool
that disturbs the \ndelicate feeder roots."
                                    +  "\n(Step  10)  Water  regularly,  especially  during  mid-
summer. Deep watering in \nhot, dry periods will help to increase yields."
                                    + "\n(Step 11) Do not prune sweet potato vines; they should
be vigorous."
                                    + "\n(Step 12) Late in the season, reduce watering to avoid
cracking of the \nsweet’s skin—a problem in storage.");
                     }
              else if  (buts == "cassava") {
                     display2.setText("(A concrete steps for cassava)\nThe plant prefers
well-drained soil and modest rainfall, but it can survive \nwhere soils are wet. Cassava
roots do not tolerate freezing temperatures \nand the best growth is in full sun. Growing
cassava yuca from start to harvest \ncan take up to 18 months. The plants are started from
propagules made from \nparts of mature stems. These are 2-to-3-inch (5 to 7.6 cm.) cuttings
with \nseveral bud nodes along the length. Lay the cutting on prepared soil in a pot \nand
keep lightly misted in a sunny location. Grow the cuttings indoors until \ntemperatures
outside are at least 70 degrees F. (21 C.). Transplant them \noutside when the cuttings
have sprouted and have at least 2 inches \n(5 cm.) of growth.");

                     }
              else if  (buts == "corn") {
                     display2.setText("(Step 1) Hold off on planting corn in spring until
after the last frost."
                                    + "\n(Step 2) Space seedlings 8 to 12 inches apart in an
area with full sun and \nfertile, well-drained soil with a pH of 6.0 to 6.8."
                                    + "\n(Step 3) Improve native soil conditions by mixing in
several inches of aged \ncompost or other rich organic matter."
                                    + "\n(Step 4) Corn will grow quickly when it is watered
well. Check soil \nmoisture often and consider using a soaker hose if you have a small
plot."
                                    + "\n(Step 5) Corn has a big appetite, so it's important
to feed plants with \na water-soluble plant food regularly."
                                    + "\n(Step 6) Add a 3-inch layer of mulch to keep soil
moist and prevent weeds. "
                                    + "\n(Step 7) Harvest corn when the ear feels plump and
the silks are brown \nand dry.");
                     }
              else if  (buts == "mango") {
                     display2.setText("(Step  1)  Selecting  a  planting  site,a  mango  trees
prefer a sunny spot \n"
                                    + "with loose, well-draining soil. Consider the tree's
mature size \n"
                                    + "when selecting a planting site, and note the site's
proximity to \n"
                                    + "other plants and structures. Container growth \nis an
option for the "
                                    + "\nsmaller mango tree varieties. "
                                    + "\n(Step 2) Spacing, depth, and support, the spacing
depends on "
                                    + "\nthe mango variety you're growing. Check the mature
canopy "
                                    + "\nwidth, along with the height, to make sure you'll
have enough "
                                    + "\nroom to grow your tree. Saplings should be planted in
"
                                    + "\ntheir nursery container at the same depth they were
growing. "
                                    + "\nYou should plant seeds about 1/2 inch deep. Saplings
might "
```

```
                                + "\nneed staking for support as they grow, especially in
an area "
                                + "\nwith strong winds."
                                + "\n(Step 3) Light, the mango trees require full sun,
meaning at "
                                + "\nleast eight hours of direct sunlight on most days.
Their flower "
                                + "\nand fruit production will suffer if \nthey don't get
enough light."
                                + "\nA south-facing window indoors can work, but it's
\nbest to move "
                                + "\nthe pot outside as much as possible for full sunlight
exposure."
                                + "\n(Step 4) Soil, these trees can tolerate a variety of
soil types."
                                + "\n But a sandy loam \nthat's light and well-draining is
best. The "
                                + "\nsoil pH can range from slightly acidic \nto slightly
alkaline (5.5 to 7.5)."
                                + "\n(Step 5) Watering, the mango trees have some drought
tolerance, though "
                                + "\ndrought can \nnegatively impact fruit production.
It's best to water "
                                + "\nwhenever the top couple inches of soil \ndries out,
but do not let the "
                                + "\ntree sit in soggy soil."
                                + "\n(Step 6) Temperature and humidity, the mango trees
prefer humidity above"
                                + "\n50 percent; mist \nan indoor tree daily if the air is
dry. Also, keep your "
                                + "\ntree as warm as possible, ideally above \n70 degrees.
Mango trees can't "
                                + "\ntolerate freezing, and even temperatures in the 40s
can cause \nflowers and fruit to drop."
                                + "\n(Step 7) Fertilizer, these trees don’t need a lot of
fertilizer, and "
                                + "\nif you already have rich soil, you likely won’t have
to provide supplemental "
                                + "\nfeeding. A \nslow-release balanced fertilizer can be
applied in poor soil "
                                + "\nconditions, following label instructions. "
                                + "\n(Step 8) Pollination, the mango trees are pollinated
by bees, ants, flies, "
                                + "\nand other pollinators, along with wind");
                    }
              else if  (buts == "palay") {
                    display2.setText("(Step 1)Buy SeedsLong-grain.\nTypes of Rice "
                                + "\n• Long-grain This sort of rice yields grains that are
light and fluffy. It "
                                + "\nis mostly a tad bit drier than other types of rice.
"
                                + "\n• Medium-grain. This variety is moist, tender,
somewhat sticky, and slightly "
                                + "\ncreamy when cooked. It has the same feel as long-
grain."
                                + "\n• Short-grain. When prepared, short-grain rice turns
out to be soft and "
                                + "\nsticky. It’s also somewhat sweeter – this is the rice
to use for sushi."
                                + "\n(Step 2) Select your planting site. "
                                + "\nCheck soil and weather conditions. Ensure the
earth/ground in the "
                                + "\narea you’re rice planting has a little acidic clay
for the best "
                                + "\noutcomes. You can similarly insert your rice seeds in
plastic "
                                + "\nbuckets with the same soil."
```

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                                + "\n(Step 3) Prepping land and seeds. "
                                + "\nGet a minimum of 1 to 2 ounces (28.5 to 56.5 g) of
rice seeds to scatter. "
                                + "\nImmerse the \nseeds in water to prepare them for
planting, letting them "
                                + "\nsoak for a good 12 hours but no longer than 36 hours.
Take out the seeds "
                                + "\nfrom the water after that."
                                + "\n(Step 4) Planting seeds. "
                                + "\nPlace the rice seeds all over the ground, in the
course of the fall or "
                                + "\nspring season. Clear out \nweed plants, prepare the
beds, and smoothen "
                                + "\nout the soil. If you are using buckets, fill them
\nwith a minimum of 6 "
                                + "\ninches (15 cm) of damp soil."
                                + "\n(Step 5) Flooding. "
                                + "\nFill up the buckets or the garden area with at least
2 inches (5.1 cm) of "
                                +  "\nwater.  But,  this  is  \njust  a  traditional
recommendation. Many individuals"
                                + "\n claim keeping the soil constantly soaked is \nenough
– it doesn’t need to "
                                + "\nbe flooded completely. This part is up to you – just
ensure it’s wet."
                                + "\n(Step 6) Keeping in Check. "
                                + "\nKeep check of the water height in the planting area,
ensuring that the soil "
                                + "\nis constantly wet. If you’d prefer, uphold 2 inches
(5.1 cm) of water "
                                + "\nlevel for the rice to develop"
                                + "\n(Step 7) Plant adequately apart."
                                + "\nThin, or space out, the rice seeds to prevent
crowding. For best results, "
                                + "\nthin out the seedlings no more than 4 inches (10.2
cm) apart in rows that "
                                + "\nrange between 9 to 12 inches (22.9 to 30.5 cm) apart.
Allow the seeds to"
                                + "\ngrow up to 7 inches (17.8 cm) tall, which takes on
average of about "
                                + "\none month."
                                + "\n(Step 8) Be patient. Drain, flood & drain!. "
                                + "\nCut a rice stalk once it matures. Wait for the grains
to mature. This "
                                + "\nwill take almost 3 or 4 months; during this time,
they can go up to 17 "
                                + "\ninches high. Allow for the water dry out or remove
any extra water prior"
                                + "\n to removing the rice for harvesting. \nOver the next
two weeks, they’ll"
                                + "\ngo from green to gold in color – that’s when you know
they’re prepared.");
                    }
             else if  (buts == "pineapple") {
                         display2.setText("(Step 1) Remove the crown of your pineapple.
Grasp the leaves "
                                          + "\nat the top of the pineapple and \ntwist to
remove the crown or the "
                                          + "\nstem. It can help to wear a gardening glove
since pineapple"
                                          + "\nleaves can be pointy."
                                          + "\n(Step 2) Trim the excess fruit flesh. After
removing the crown, "
                                          + "\nuse a sharp paring knife to trim away excess
fruit flesh, the"
                                          + "\n bottom leaves, and suckers—the small growths
between the leaves"
```

```
                                    + "\n(Step 3) Trim the bottom of the stem. Then,
trim the bottom of "
                                    + "\nthe stem by making small slices. Look for the
root primordia, "
                                    + "\nwhich will appear as a ring of tiny brown dots.
This is where "
                                    + "\nthe roots of the pineapple plant will emerge."
                                    + "\n(Step 4) Dry the stalk. Drying the stalk can
take a couple of days, "
                                    + "\ndepending on the humidity. Place the stalk in
a warm, sunny area "
                                    + "\nwith good air circulation. This will allow any
excess moisture—which "
                                    + "\ncan cause rot—to evaporate away"
                                    + "\n(Step 5) Place the crown in a glass jar. Fill
a jar with warm water "
                                    + "\nand place the crown of the pineapple inside,
submerging the bottom of "
                                    + "\nthe stem. The leaves should prevent it from
sinking down into the jar."
                                    + "\n(Step 6) Change the water every few days. After
about a week, you "
                                    + "\nshould notice small root sprouts emerging from
the bottom of the stalk."
                                    + "\nOnce these roots reach three inches or so in
length—this might take a "
                                    + "\nfew months—it's time to pot your pineapple.
It's okay if the lower"
                                    + "\nleaves start to turn brown; as long as some of
the leaves remain green,"
                                    + "\nyour pineapple is doing okay."
                                    + "\n(Step 7) Place the pineapple in your prepared
pot. Cover the bottom of "
                                    + "\nthe pot with some soil, then place your
pineapple in the pot. "
                                    + "\nFill soil around the plant so the pineapple
crown is sticking out "
                                    + "\nof the top. Place the plant in indirect light
for the initial few "
                                    + "\nweeks and water the plant when the soil is dry.
Eventually,"
                                    + "\nyou'll see some new leaves growing in the
center of the plant."
                                    + "\n(Step 8) Move your plant into full sun. Once
the plant is "
                                    + "\nfully rooted and showing good health with new,
green leaves"
                                    + "\ngrowing, you can move it in a place to receive
full sun."
                                    + "\nKeep the soil moist, but avoid overwatering.");
                            }
                else if  (buts == "potato") {
                       display2.setText("(Step 1) Dig V-Shaped Trenches: Dig 2- to 2.5-foot
trenches"
                                    + "\n(60 to 75 inches). Lay a nourishing cushion of garden
compost along"
                                    + "\nthe bottom and a few of those chicken manure pellets,"
                                    + "\nthen set your tubers into position about one foot or
30 cm apart."
                                    + "\nThen just fill back in. I don't think it makes a huge
difference "
                                    + "\nwhich way you plant, so do whatever's easiest in the
space you have."
                                    + "\n(Step 2) Dig V-Shaped Trenches: Dig 2- to 2.5-foot
trenches "
                                    + "\n(60 to 75 inches). Lay a nourishing cushion of garden
compost"
```

```
                                + "\nalong the bottom and a few of those chicken manure
pellets, "
                                + "\nthen set your tubers into position about one foot or
30 cm apart. "
                                + "\nThen just fill back in. I don’t think it makes a huge
difference "
                                + "\nwhich way you plant, so do whatever’s easiest in the
space you have."
                                + "\n(Step 3) Plant in Straw: Nestle seed potatoes down
into the "
                                + "\nsoil surface then cover them with straw. See our
article on "
                                + "\nplanting potatoes in straw."
                                + "\n(Step 4) Plant Potatoes in Pots: If you don’t have
the garden space,"
                                + "\nplant in large containers, old compost sacks, or
purpose-sold potato "
                                + "\nsacks. Fill the bottom of your pot or sack with about
4 inches (10 cm)"
                                + "\nof potting mix, then lay one or two potatoes on top
and cover. "
                                + "\nOnce the foliage is growing, add in more potting mix,
a bit at a time,"
                                + "\nto hill or earth them up until the soil level reaches
the top at which "
                                + "\npoint the foliage almost seems to explode in size."
                                + "\n(Step 5) Watering Potatoes: Firstly, water! This is
really "
                                + "\nimportant because potatoes are lush and leafy plants,
"
                                + "\nand those tubers take a lot of effort to swell. So if
it’s dry, "
                                + "\nwater thoroughly. Maintain even moisture, especially
from the "
                                + "\ntime after the flowers bloom. Potatoes need 1 to 2
inches of "
                                + "\nwater a week. Too much water right after planting and
not enough"
                                + "\nas the potatoes begin to form can cause them to become
misshapen."
                                + "\n(Step 6) Hilling Potatoes: Potato flavor is improved
by depth"
                                + "\nand darkness. As the potato plants grow above the
soil surface,"
                                + "\nyou’ll need to periodically “hill up” or mound up
soil and compost "
                                + "\naround the plant so that only the top leaves stick
out of the ground. "
                                + "\nIt’s vital not to allow potato spuds to be exposed to
sunlight, "
                                + "\nas this also causes them to turn green and produce a
chemical "
                                + "\ncalled solanine, which gives off a bitter taste and
is toxic. "
                                + "\nDo the hilling in the morning, when plants are at
their tallest."
                                + "\nJust draw up the soil with a hoe every time the stems
get to around "
                                + "\n6 to 8 inches (15 to 20 cm) tall so that just the
very tops are left"
                                + "\npoking out.");
                    }
             else if  (buts == "sugarcane") {
                    display2.setText("(Step 1) After the canes are all cut and collected,"
                                + "\nthe farmer has to strip the leaves. They should take
these"
```

```
                                + "\nleaves and lay them over the remaining sugarcane roots
along "
                                + "\nwith some mulch. Doing so will help protect them
throughout"
                                + "\nthe cold winter months"
                                +  "\n(Step 2) Next comes the cleaning and syrup
harvesting."
                                + "\nThe cane producer should wipe them down to get rid of
any insets, "
                                + "\ndirt, or mildew. They can then use a sugarcane press
to extract the syrup."
                                + "\n(Step 3) Even someone without a press can grow and
cultivate sugarcane."
                                + "\nSimply chop up the cane into small chunks, place them
in a large "
                                + "\nstainless steel stockpot, and cover them with water
to boil for an"
                                + "\nhour or two"
                                + "\n(Step 4) After the water begins to taste sweet, the
harvester"
                                + "\nremoves the cane pieces and continues to boil down
the liquid"
                                + "\nto concentrate the syrup. At the end of the boiling
process, "
                                + "\nthe individual should have a thickened juice");
                  }
             else if  (buts == "back") {
                    new Start();
                    frame.dispose();
             }

      }


}
```

Ederson’s Part

```
package project2;

import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;

//Info Button Page
class Information1 {
      private JFrame frame;
      private JButton  banana, coconut, camote, cassava, corn, mango, palay, pineapple,
potato, sugarcane, back;
      private JLabel background;
      private Label title;

 Information1()
      {
             frame = new JFrame();
             frame.setBounds(200,0, 1050, 700);
             frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
             frame.getContentPane().setLayout(null);

             title = new Label("                                        Fruits Information");
             title.setFont(new Font("Arial", Font.BOLD, 30));
             title.setBounds(100, 20, 800, 70);
             title.setBackground(Color.orange);
             frame.getContentPane().add(title);

             back = new JButton("Back");
```

```
		back.setBackground(Color. green);
		back.setFont(new Font("Arial", Font.BOLD, 20));
		back.setBounds(50, 610, 200, 70);
		frame.getContentPane().add(back);
		back.addActionListener(new ActionListener(){
			public void actionPerformed(ActionEvent e){
				new Start();
				frame.dispose();
			}
		});


		//Row 1

		banana = new JButton("Banana");
		banana.setIcon(new 		ImageIcon("C:\\Users\\Lizette 		E.
Gonzales\\workspace\\SampleProject\\src\\edad\\banana.png"));
		banana.setFont(new Font("Arial", Font.BOLD, 15));
		banana.setBackground(Color. green);
		banana.setBounds(100, 120, 200, 70);
		frame.getContentPane().add(banana);
		banana.addActionListener(new ActionListener (){
			public void actionPerformed(ActionEvent e){
				new banana1();
				frame.dispose();
				}
			});



		coconut = new JButton("Coconut");
		coconut.setIcon(new 		ImageIcon("C:\\Users\\Lizette 		E.
Gonzales\\workspace\\SampleProject\\src\\edad\\coconut.png"));
		coconut.setBackground(Color. green);
		coconut.setFont(new Font("Arial", Font.BOLD, 15));
		coconut.setBounds(400, 120, 200, 70);
		frame.getContentPane().add(coconut);
		coconut.addActionListener(new ActionListener (){
			public void actionPerformed(ActionEvent e){
				new coconut1();
				frame.dispose();
				}
			});

		camote = new JButton("Sweet Potato");
		camote.setIcon(new 		ImageIcon("C:\\Users\\Lizette 		E.
Gonzales\\workspace\\SampleProject\\src\\edad\\camote.png"));
		camote.setBackground(Color. green);
		camote.setFont(new Font("Arial", Font.BOLD, 15));
		camote.setBounds(700, 120, 200, 70);
		frame.getContentPane().add(camote);
		camote.addActionListener(new ActionListener (){
			public void actionPerformed(ActionEvent e){
				new camote1();
				frame.dispose();
				}
			});

		//Row 2

		cassava = new JButton("Cassava");
		cassava.setIcon(new 		ImageIcon("C:\\Users\\Lizette 		E.
Gonzales\\workspace\\SampleProject\\src\\edad\\cassava.png"));
		cassava.setBackground(Color. green);
		cassava.setFont(new Font("Arial", Font.BOLD, 15));
		cassava.setBounds(100, 250, 200, 70);
		frame.getContentPane().add(cassava);
```

```
            cassava.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new cassava1();
                        frame.dispose();
                        }
                  });


            corn = new JButton("Corn");
            corn.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\edad\\corn.png"));
            corn.setBackground(Color. green);
            corn.setFont(new Font("Arial", Font.BOLD, 15));
            corn.setBounds(400, 250, 200, 70);
            frame.getContentPane().add(corn);

            corn.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new corn1();
                        frame.dispose();
                        }
                  });

            mango = new JButton("Mango");
            mango.setIcon(new              ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\edad\\mango.png"));
            mango.setBackground(Color. green);
            mango.setFont(new Font("Arial", Font.BOLD, 15));
            mango.setBounds(700, 250, 200, 70);
            frame.getContentPane().add(mango);
            mango.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new mango1();
                        frame.dispose();
                        }
                  });
            //Row 3

            palay = new JButton("Palay");
            palay.setIcon(new              ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\edad\\palay.png"));
            palay.setBackground(Color. green);
            palay.setFont(new Font("Arial", Font.BOLD, 15));
            palay.setBounds(100, 380, 200, 70);
            frame.getContentPane().add(palay);
            palay.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new palay1();
                        frame.dispose();
                        }
                  });

            pineapple = new JButton("Pineapple");
            pineapple.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\edad\\pineapple.png"));
            pineapple.setBackground(Color. green);
            pineapple.setFont(new Font("Arial", Font.BOLD, 15));
            pineapple.setBounds(400, 380, 200, 70);
            frame.getContentPane().add(pineapple);

            pineapple.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new pineapple1();
                        frame.dispose();
                        }
                  });
```

```
            potato = new JButton("Potato");
            potato.setIcon(new             ImageIcon("C:\\Users\\Lizette             E.
Gonzales\\workspace\\SampleProject\\src\\edad\\potato.png"));
            potato.setBackground(Color. green);
            potato.setFont(new Font("Arial", Font.BOLD, 15));
            potato.setBounds(700, 380, 200, 70);
            frame.getContentPane().add(potato);
            potato.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new potato1();
                        frame.dispose();
                        }
                  });
            //Row 4

            sugarcane = new JButton("Sugarcane");
            sugarcane.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\edad\\sugarcane.png"));
            sugarcane.setBackground(Color. green);
            sugarcane.setFont(new Font("Arial", Font.BOLD, 15));
            sugarcane.setBounds(400, 510, 200, 70);
            frame.getContentPane().add(sugarcane);
            sugarcane.addActionListener(new ActionListener (){
                  public void actionPerformed(ActionEvent e){
                        new sugarcane1();
                        frame.dispose();
                        }
                  });

            background    =    new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
            background.setBounds(0,0, 1050, 700);
            background.setLayout(new FlowLayout());
            frame.getContentPane().add(background);
        frame.setResizable(false);
            frame.setTitle("Infro-Crop");
            frame.pack();
            frame.setVisible(true);
            frame.setSize(1050, 720);
      }
}

//banana frame
class banana1 {

      private JFrame frame;
      private JLabel background;
      private Label title;
      private JButton lakatan, latundan, seniorita, tordan, saba, back;
      private JTextArea container;
            public banana1()
      {
                  frame = new JFrame();
                  frame.setBounds(200, 0, 1050, 700);
                  frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                  frame.getContentPane().setLayout(null);

                  title = new Label("                                    Different Types of
Banana");
                  title.setFont(new Font("Arial", Font.BOLD, 30));
                  title.setBounds(100, 20, 820, 70);
                  title.setBackground(Color.orange);
                  frame.getContentPane().add(title);

                  container = new JTextArea();
```

```
                    container.setBackground(Color. white);
                    container.setBounds(320, 100, 600,500);
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setEditable(false);
                    frame.getContentPane().add(container);

                    lakatan = new JButton("Lakatan");
                    lakatan.setIcon(new          ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\banana.png"));
                    lakatan.setBackground(Color. green);
                    lakatan.setFont(new Font("Arial", Font.BOLD, 15));
                    lakatan.setBounds(100, 100, 200, 70);
                    frame.getContentPane().add(lakatan);

                    lakatan.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nLakatan bananas, also spelled
Lacatan, are diploid banana cultivars from the "
                                                + "\nPhilippines. It is one of the most common
banana cultivars in the Philippines, "
                                                + "\nalong with the Latundan and Saba
bananas. Lakatan bananas should not be confused "
                                                + "\nwith the Cavendish banana."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nLakatan typically grows to a height
of five to nine feet. The fruits can be "
                                                + "\nharvested 8 to 12 months after planting.
Lakatan fruits are longer and thicker-skinned "
                                                + "\nthan the Latundan bananas and turn a
characteristic yellow-orange when ripe.");
                           }
                    });


                    latundan = new JButton("Latundan");
                    latundan.setIcon(new          ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\banana.png"));
                    latundan.setBackground(Color. green);
                    latundan.setFont(new Font("Arial", Font.BOLD, 15));
                    latundan.setBounds(100, 200, 200, 70);
                    frame.getContentPane().add(latundan);


                    latundan.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe Latundan banana is a triploid
hybrid banana cultivar of the AAB (Pome)"
                                                + "\ngroup from the Philippines. It is one of
the most common banana cultivars in "
                                                + "\nSoutheast Asia and the Philippines,
along with Lacatan and Saba bananas."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nLatundan banana plants typically
reach a height of 10 to 13 feet. They require full "
                                                + "\nor partial sun exposure. The fruits can
be harvested 8 to 12 months after planting. "
                                                + "\nThe flowers are yellow, purple, or ivory
in color. The fruits are round-tipped with thin "
                                                + "\nyellow skin that splits once fully ripe.
They are smaller than the Lacatan cultivar and "
                                                + "\nthe commercially dominant Cavendish
bananas.");
                           }
```

```
                    });

                    seniorita = new JButton("Seniorita");
                    seniorita.setIcon(new         ImageIcon("C:\\Users\\Lizette         E.
Gonzales\\workspace\\SampleProject\\src\\edad\\banana.png"));
                    seniorita.setBackground(Color. green);
                    seniorita.setFont(new Font("Arial", Font.BOLD, 15));
                    seniorita.setBounds(100, 300, 200, 70);
                    frame.getContentPane().add(seniorita);

                    seniorita.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                +   "\n\n\nSeñorita   bananas   are   diploid
cultivars of the banana Musa acuminata originating in "
                                                + "\nthe Philippines. They are very small
stout bananas which, like all bananas belonging "
                                                + "\nto the AA cultivar group, are known for
being extraordinarily sweet."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nSeñorita bananas are some of the
shortest banana cultivars, growing to a height of "
                                                + "\nonly 2.44 m (8.0 ft) with a pseudostem
girth of 42 cm (17 in) at 1 m (3.3 ft) height. "
                                                + "\nThe plant begins to flower at about 231
days after planting. The time period from "
                                                + "\nflowering to harvesting is 40 days.");

                           }
                    });

                    tordan = new JButton("Tordan");
                    tordan.setIcon(new           ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\banana.png"));
                    tordan.setBackground(Color. green);
                    tordan.setFont(new Font("Arial", Font.BOLD, 15));
                    tordan.setBounds(100, 400, 200, 70);
                    frame.getContentPane().add(tordan);

                    tordan.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe Tordan banana is a small to
medium-sized banana with a distinctive shape and "
                                                +  "\nflavor.  It  has  a  slender,  curved
appearance, similar to other common banana varieties. "
                                                + "\nThe skin of the Tundan banana is thin
and yellow, often with brown spots when fully "
                                                + "\nripe."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nThe harvest time of Tundan bananas
can vary depending on various factors such as "
                                                +  "\nthe  region,  climate,  and  specific
growing conditions. The harvest season for Tundan "
                                                +  "\nbananas  typically  occurs  during  the
summer . This is usually from May to July or "
                                                +  "\nsometimes  extending  into  August.");

                           }
                    });

                    saba = new JButton("Saba");
                    saba.setIcon(new           ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\banana.png"));
                    saba.setBackground(Color. green);
```

```
                    saba.setFont(new Font("Arial", Font.BOLD, 15));
                    saba.setBounds(100, 500, 200, 70);
                    frame.getContentPane().add(saba);

                    saba.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe Saba banana, also known as the
Cardaba banana or Musa balbisiana, is a "
                                                + "\npopular banana variety commonly found in
Southeast Asia, particularly in the "
                                                + "\nPhilippines. They have a plump and stout
appearance with a square-shaped "
                                                +  "\ncross-section.  The  skin  of  the  Saba
banana is thick and green, turning yellow "
                                                + "\nor brown as it ripens."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nLakatan typically grows to a height
of five to nine feet. The fruits can be "
                                                + "\nharvested 8 to 12 months after planting.
Lakatan fruits are longer and thicker-skinned "
                                                +  "\nthan  the  Latundan  bananas  and  turn  a
characteristic yellow-orange when ripe.");
                           }
                    });

                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(500, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });


                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
              frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }
      }

//coconut frame

class coconut1 {

      private JFrame frame;
      private JLabel background;
      private Label title;
      private JButton baybay, san_ramon, taganan, laguna, agta, back;
      private JTextArea container;

             public coconut1()
      {
                    frame = new JFrame();
```

```
                    frame.setBounds(200,0, 1050, 700);
                    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                    frame.getContentPane().setLayout(null);

                    title = new Label("                                    Different Types of
Coconut");
                    title.setFont(new Font("Arial", Font.BOLD, 30));
                    title.setBounds(100, 20, 820, 70);
                    title.setBackground(Color.orange);
                    frame.getContentPane().add(title);

                    container = new JTextArea();
                    container.setBackground(Color. white);
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setBounds(320, 100, 600,500);
                    container.setEditable(false);
                    frame.getContentPane().add(container);

                    baybay = new JButton("Baybay");
                    baybay.setIcon(new           ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\coconut.png"));
                    baybay.setBackground(Color. green);
                    baybay.setFont(new Font("Arial", Font.BOLD, 15));
                    baybay.setBounds(100, 100, 200, 70);
                    frame.getContentPane().add(baybay);

                    baybay.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                +   "\n\n\nThe   term   (Baybay)   is   often
associated with the town or municipality of Baybay "
                                                + "\nin the province of Leyte, Philippines.
The Baybay Tall coconut tree is characterized "
                                                + "\nby its tall and erect stature, with a
straight and slender trunk. It typically grows "
                                                + "\nto a height of around 20-30 meters (65-
98 feet) or more."
                                                + "\n\n\nHarvest Season/Time"
                                                +  "\n\n\nIn the Philippines, where Baybay
Tall coconuts are commonly grown, coconuts are "
                                                + "\nusually harvested when they are around
11 to 12 months old. At this stage, the "
                                                +  "\ncoconuts  are  considered  mature  and
suitable for harvesting. If the coconuts are being "
                                                +  "\nharvested  for  their  water  (coconut
water), they are typically picked at a younger stage, "
                                                + "\naround 7 to 8 months old, when the liquid
inside the coconut is plentiful and sweet.");
                           }
                    });

                    san_ramon = new JButton("San Ramon");
                    san_ramon.setIcon(new         ImageIcon("C:\\Users\\Lizette         E.
Gonzales\\workspace\\SampleProject\\src\\edad\\coconut.png"));
                    san_ramon.setBackground(Color. green);
                    san_ramon.setFont(new Font("Arial", Font.BOLD, 15));
                    san_ramon.setBounds(100, 200, 200, 70);
                    frame.getContentPane().add(san_ramon);

                    san_ramon.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe San Ramon coconut refers to a
specific coconut variety named after San Ramon, "
```

```
                                                +  "\na  municipality  in  the  province  of
Zamboanga del Sur, Philippines. The San Ramon "
                                                + "\ncoconut treeis classified as a tall or
tall-type coconut variety. It has a tall and erect "
                                                + "\nstature, with a straight and slender
trunk that can reach heights of 20-30 meters "
                                                + "\n(65-98 feet) or more."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nIn the Philippines, where San Ramon
coconuts are commonly grown, coconuts are usually "
                                                + "\nharvested when they are around 11 to 12
months old. At this stage, the coconuts are "
                                                +  "\nconsidered  mature  and  suitable  for
harvesting.");
                        }
                });

                taganan = new JButton("Taganan");
                taganan.setIcon(new          ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\coconut.png"));
                taganan.setBackground(Color. green);
                taganan.setFont(new Font("Arial", Font.BOLD, 15));
                taganan.setBounds(100, 300, 200, 70);
                frame.getContentPane().add(taganan);

                taganan.addActionListener(new ActionListener(){
                       public void actionPerformed(ActionEvent e){

                              container.setText("Fruit Description"
                                                +   "\n\n\nThe   Tagnanan   coconut   (Cocos
nucifera) population on the Gulf of Davao, Mindanao, "
                                                + "\nThe Philippines, was probably introduced
from North Sulawesi, Indonesia. Unusually uniform "
                                                + "\nfor a tall palm, it may be relatively
homozygous. Its number of leaves is close to sixteen "
                                                + "\nper year and its fruit composition is
outstanding: high copra content and very thin husk. "
                                                + "\nIts weak point concerns the number of
nuts per bunch."
                                                + "\n\n\nHarvest Season/Time"
                                                +  "\n\n\nIn the Philippines, where Taganan
coconuts are commonly grown, coconuts are usually "
                                                + "\nharvested when they are around 11 to 12
months old. At this stage, the coconuts are "
                                                +  "\nconsidered  mature  and  suitable  for
harvesting.");
                        }
                });
                back = new JButton("Back");
                back.setBackground(Color. green);
                back.setFont(new Font("Arial", Font.BOLD, 20));
                back.setBounds(500, 610, 200, 70);
                frame.getContentPane().add(back);
                back.addActionListener(new ActionListener(){
                       public void actionPerformed(ActionEvent e){
                              new Information1();
                              frame.dispose();
                       }
                });

                laguna = new JButton("Laguna");
                laguna.setIcon(new           ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\coconut.png"));
                laguna.setBackground(Color. green);
                laguna.setFont(new Font("Arial", Font.BOLD, 15));
                laguna.setBounds(100, 400, 200, 70);
                frame.getContentPane().add(laguna);
```

```
                    laguna.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nLaguna coconut are commonly grown in
Laguna, Philippines, and throughout the "
                                                + "\ncountry. The Philippines is known for
its diverse range of coconut cultivars, "
                                                + "\nincluding Tall coconuts. These varieties
can have specific characteristics and "
                                                + "\ngrowth habits. Produces a fairly large
number of nuts; 190 g copra/nut; hybrid "
                                                + "\ncross with CAT green dwarf good"
                                                + "\n\n\nHarvest Season/Time"
                                                +  "\n\n\nIn the Philippines, where Laguna
coconuts are commonly grown, coconuts are usually "
                                                + "\nharvested when they are around 11 to 12
months old. At this stage, the coconuts are "
                                                +  "\nconsidered mature and suitable for
harvesting.");
                           }
                    });

                    agta = new JButton("Agta");
                    agta.setIcon(new            ImageIcon("C:\\Users\\Lizette           E.
Gonzales\\workspace\\SampleProject\\src\\edad\\coconut.png"));
                    agta.setBackground(Color. green);
                    agta.setFont(new Font("Arial", Font.BOLD, 15));
                    agta.setBounds(100, 500, 200, 70);
                    frame.getContentPane().add(agta);

                    agta.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe Agta coconut can be considered
as a tall coconut tree. The Agat coconut tree"
                                                +  "\n was origainated in the Philippines
where the agta coconuts can be found because of the "
                                                +  "\n tropical climate occur in the
Philippines. Husk of nut is streaked, making it look "
                                                + "\naround and tough. Young nuts show black
streaks"
                                                + "\n\n\nHarvest Season/Time"
                                                +  "\n\n\nIn the Philippines, where Agta
coconuts are commonly grown, coconuts are usually "
                                                + "\nharvested when they are around 11 to 12
months old. At this stage, the coconuts are "
                                                +  "\nconsidered mature and suitable for
harvesting.");
                           }
                    });
                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(500, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });

                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
```

```
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
               frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }


}

//camote1

class camote1 {

      private JFrame frame;
      private JLabel background;
      private Label title;
      private JButton beni_zuma, bayou_belle, beauregard, garnet, jewel, back;
      private JTextArea container;
      public camote1()
{
             frame = new JFrame();
             frame.setBounds(200,0, 1050, 700);
             frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
             frame.getContentPane().setLayout(null);

             title = new Label("                                    Different Types of Sweet
Potato");
             title.setFont(new Font("Arial", Font.BOLD, 30));
             title.setBounds(100, 20, 820, 70);
             title.setBackground(Color.orange);
             frame.getContentPane().add(title);

             container = new JTextArea();
             container.setBackground(Color. white);
             container.setFont(new Font("Arial", Font.BOLD, 15));
             container.setBounds(320, 100, 600,500);
             container.setEditable(false);
             frame.getContentPane().add(container);

             beni_zuma = new JButton("Beni Zuma");
             beni_zuma.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\edad\\camote.png"));
             beni_zuma.setBackground(Color. green);
             beni_zuma.setFont(new Font("Arial", Font.BOLD, 15));
             beni_zuma.setBounds(100, 100, 200, 70);
             frame.getContentPane().add(beni_zuma);

             beni_zuma.addActionListener(new ActionListener(){
                    public void actionPerformed(ActionEvent e){

                           container.setText("Fruit Description"
                                        + "\n\n\nIf your first impressions of satsumaimo are
a flaky texture and mild, earthy sweet "
                                        + "\ntaste, Beni Azuma may be the one you ate. It
has been the most popular variety in  "
                                        +  "\nJapan  for  more  than  three  decades,  and  is
mainly cultivated in the Kanto region  "
                                        + "\nincluding Ibaraki and Chiba Prefectures. Beni
Azuma is neither too sweet nor too  "
                                        + "\nfibrous, so you can enjoy its flaky yet smooth
texture regardless of cooking methods "
                                        + "\nfrom stir-frying to simmering."
```

```
                                        + "\n\n\nHarvest Season/Time"
                                        + "\n\n\nGenerally the growth cycle of the sweet
potato is from 3.5 to 7 months and takes "
                                        + "\nplace in three phases; these are: From planting
to formation of tubers (40 to 60 days) "
                                        + "\nfrom formation of tubers to the time of maximum
leaf development (60–120 days)");
                    }
             });

             bayou_belle = new JButton("Bayou Belle");
             bayou_belle.setIcon(new           ImageIcon("C:\\Users\\Lizette           E.
Gonzales\\workspace\\SampleProject\\src\\edad\\camote.png"));
             bayou_belle.setBackground(Color. green);
             bayou_belle.setFont(new Font("Arial", Font.BOLD, 15));
             bayou_belle.setBounds(100, 200, 200, 70);
             frame.getContentPane().add(bayou_belle);

             bayou_belle.addActionListener(new ActionListener(){
                    public void actionPerformed(ActionEvent e){

                           container.setText("Fruit Description"
                                        + "\n\n\nBayou Belle is a new deep orange flesh,
red/purple skinned sweet potato. "
                                        + "\nSugar content is similar to Evangeline; however
it has a more firm texture when "
                                        +  "\nbaked.  Shape  is  slightly  improved  over
‘Beauregard’, but root to root variability "
                                        + "\ndoes exist. The days to harvest are similar to
‘Beauregard’. Disease "
                                        +  "\ncharacteristics are similar to ‘Beauregard’
except for higher levels of resistance "
                                        + "\nto root knot nematode."
                                        + "\n\n\nHarvest Season/Time"
                                        + "\n\n\nThe crop cycle of Bayou Belle is 90 to 100
days, shorter than the Beaugard "
                                        + "\n(110-120 days) and presents consistently yields
10 % higher than ‘Beauregard’.");
                    }
             });

             beauregard = new JButton("Beauregard");
             beauregard.setIcon(new            ImageIcon("C:\\Users\\Lizette           E.
Gonzales\\workspace\\SampleProject\\src\\edad\\camote.png"));
             beauregard.setBackground(Color. green);
             beauregard.setFont(new Font("Arial", Font.BOLD, 15));
             beauregard.setBounds(100, 300, 200, 70);
             frame.getContentPane().add(beauregard);

             beauregard.addActionListener(new ActionListener(){
                    public void actionPerformed(ActionEvent e){

                           container.setText("Fruit Description"
                                        + "\n\n\nBeauregard sweet potatoes are large in size
with a uniform, oblong to an elliptical "
                                        + "\nshape, slightly tapering to small points on
both ends. The long tuber has semi-smooth "
                                        + "\nskin that ranges in color from copper, red-
brown, to purple-brown, and is firm with a "
                                        + "\nfew shallow divots and markings. Underneath the
surface, the dark orange flesh is dense, "
                                        +  "\nmoist,  and  fine-grained.  When  cooked,
Beauregard sweet potatoes develop a tender, soft, "
                                        +  "\nand  creamy  consistency  with  a  sweet  and
slightly nutty flavor."
                                        + "\n\n\nHarvest Season/Time"
```

```
                                        + "\n\n\nBeauregard sweet potato can be harvest in
90-120 days. A terrific introduction from "
                                        + "\nLouisiana State University, Beauregard has
large, elongated tubers with thin, red-orange "
                                        + "\nskins and deep orange-colored flesh with a
moist, light and creamy texture.");
                    }
             });


             garnet = new JButton("Haponita");
             garnet.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\edad\\camote.png"));
             garnet.setBackground(Color. green);
             garnet.setFont(new Font("Arial", Font.BOLD, 15));
             garnet.setBounds(100, 400, 200, 70);
             frame.getContentPane().add(garnet);

             garnet.addActionListener(new ActionListener(){
                    public void actionPerformed(ActionEvent e){

                           container.setText("Fruit Description"
                                        + "\n\n\nThe Garnet is also called the red yam.
Quite moist, its orange-yellow flesh "
                                        + "\nis described as being succulent and having an
excellent flavor. Encased in a "
                                        + "\nlight red-purplish garnet-colored skin, some
can grow to be a foot long."
                                        + "\n\n\nHarvest Season/Time"
                                        + "\n\n\nThis variety probably doesn't have the same
disease and pest-resistance "
                                        + "\nqualities as newer cultivars, but it's a tasty
staple in the sweet potato world. "
                                        + "\n'Garnet' is ready for harvest 110 days after
planting.");
                    }
             });


             jewel = new JButton("Benguita");
             jewel.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\edad\\camote.png"));
             jewel.setBackground(Color. green);
             jewel.setFont(new Font("Arial", Font.BOLD, 15));
             jewel.setBounds(100, 500, 200, 70);
             frame.getContentPane().add(jewel);

             jewel.addActionListener(new ActionListener(){
                    public void actionPerformed(ActionEvent e){

                           container.setText("Fruit Description"
                                        + "\n\n\nJewel has copper skin and light orange
flesh, very similar to the Beauregard. "
                                        + "\nIt has a more robust flavor, but not as sweet,
with a soft and moist texture. "
                                        + "\nGreat for casseroles, mashes, pies, baking, and
roasting."
                                        + "\n\n\nHarvest Season/Time"
                                        + "\n\n\nJewels do take a bit longer to mature at
115-130 days, it is well worth the "
                                        + "\nwait if you have a warm or long enough season.
Jewels are resistant to fusarium "
                                        + "\nwilt, southern root-knot nematode, internal
cork, and sweet potato beetle.");
                    }
             });
             back = new JButton("Back");
```

```
              back.setBackground(Color. green);
              back.setFont(new Font("Arial", Font.BOLD, 20));
              back.setBounds(500, 610, 200, 70);
              frame.getContentPane().add(back);
              back.addActionListener(new ActionListener(){
                     public void actionPerformed(ActionEvent e){
                            new Information1();
                            frame.dispose();
                     }
              });

              background    =    new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
              background.setBounds(0,0, 1050, 700);
              background.setLayout(new FlowLayout());

              frame.getContentPane().add(background);
         frame.setResizable(false);
              frame.setTitle("Infro-Crop");
              frame.pack();
              frame.setVisible(true);
              frame.setSize(1050, 720);
       }

}

//cassava frame

class cassava1 {

       private JFrame frame;
       private JLabel background;
       private Label title;
       private JButton back;
       private JTextArea container;
              public cassava1()
       {
                     frame = new JFrame();
                     frame.setBounds(200,0, 1050, 700);
                     frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                     frame.getContentPane().setLayout(null);

                     title = new Label("                              Description of Cassava
Fruit");
                     title.setFont(new Font("Arial", Font.BOLD, 30));
                     title.setBounds(100, 20, 820, 70);
                     title.setBackground(Color.orange);
                     frame.getContentPane().add(title);

                     container = new JTextArea();
                     container.setBackground(Color. white);
                     container.setFont(new Font("Arial", Font.BOLD, 15));
                     container.setBounds(100, 100, 820,500);
                     container.setEditable(true);
                     frame.getContentPane().add(container);

                     container.setText("Fruit Description"
                                   + "\n\n\nCassava is a perennial plant with conspicuous,
almost palmate (fan-shaped) leaves resembling those of the related "
                                   + "\ncastor-oil plant but more deeply parted into five to
nine lobes. The fleshy roots are reminiscent of dahlia tubers. "
                                   + "\nDifferent varieties range from low herbs to branching
shrubs and slender unbranched trees."
                                   + "\n\n\nHarvest Season/Time"
                                   + "\n\n\nCassava friut is good for yields you must harvest
after 9 to 12 months. If cassava is used as a vegetable the "
```

```
                                + "\ntubers are harvested within 12 months to avoid fibrous
tubers, but cassava used for starch processing are left to "
                                + "\nreach full maturity, often up to 18 to 24 months after
planting.");
                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(420, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });

                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
              frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }
      }

//corn frame

class corn1 {

      private JFrame frame;
      private JLabel background;
      private Label title;
      private JButton back;
      private JTextArea container;
             public corn1()
      {
                    frame = new JFrame();
                    frame.setBounds(200,0, 1050, 700);
                    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                    frame.getContentPane().setLayout(null);

                    title = new Label("                                          Description of
Corn");
                    title.setFont(new Font("Arial", Font.BOLD, 30));
                    title.setBounds(100, 20, 820, 70);
                    title.setBackground(Color.orange);
                    frame.getContentPane().add(title);

                    container = new JTextArea();
                    container.setBackground(Color. white);
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setBounds(100, 100, 820,500);
                    container.setEditable(true);
                    frame.getContentPane().add(container);

                    container.setText("Fruit Description"
                                + "\n\n\n Corn is a tall annual cereal grass (Zea mays)
that is widely grown for its large elongated ears of starchy seeds. "
                                + "\nThe seeds, which are also known as corn, are used as
food for humans and livestock and as a source of biofuel and  "
                                +  "\ncan  be  processed  into  a  wide  range  of  useful
chemicals."
```

```
                                + "\n\n\nHarvest Season/Time"
                                + "\n\n\nCorn is typically harvested in late summer or
early fall, between August and October in the Northern Hemisphere. "
                                + "\nHarvesting time depends on factors such as corn type,
planting date, climate, and maturity, which farmers monitor by "
                                + "\nobserving kernel moisture, color, and texture to
determine the ideal time to harvest.");

                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(420, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });

                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
              frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }

}


// mango frame

class mango1 {

       private JFrame frame;
       private JLabel background;
       private Label title;
       private JButton carabao, katchamita, ataulfo, piko, back;
       private JTextArea container;
              public mango1()
       {
                    frame = new JFrame();
                    frame.setBounds(200,0, 1050, 700);
                    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                    frame.getContentPane().setLayout(null);

                    title = new Label("                                    Different Types of
Mangoes");
                    title.setFont(new Font("Arial", Font.BOLD, 30));
                    title.setBounds(100, 20, 820, 70);
                    title.setBackground(Color.orange);
                    frame.getContentPane().add(title);

                    container = new JTextArea();
                    container.setBackground(Color. white);
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setBounds(320, 100, 600,500);
                    container.setEditable(true);
                    frame.getContentPane().add(container);

                    carabao = new JButton("Carabao");
```

```
                    carabao.setIcon(new          ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\mango.png"));
                    carabao.setBackground(Color. green);
                    carabao.setFont(new Font("Arial", Font.BOLD, 15));
                    carabao.setBounds(100, 100, 200, 70);
                    frame.getContentPane().add(carabao);

                    carabao.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe Carabao mango, also known as the
Philippine mango or Manila mango, "
                                                + "\nis a variety of particularly sweet mango
from the Philippines. It is one of "
                                                + "\nthe most important varieties of mango
cultivated in the Philippines. "
                                                + "\nThe variety is reputed internationally
due to its sweetness and exotic taste. "
                                                + "\nThe mango variety was listed as the
sweetest in the world by the 1995 edition "
                                                + "\nof the Guinness Book of World Records."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nIt takes 120 to 140 days from fruit
set to harvest a mature mango fruit. "
                                                + "\nAt maturity, shoulders (sides) of mango
fruits get raised, and partly attached "
                                                + "\nto the stalk gets sunken. The dark green
fruits start turning pale green to "
                                                + "\nyellowish at maturity.");

                           }
                    });


                    katchamita = new JButton("Katchamita");
                    katchamita.setIcon(new         ImageIcon("C:\\Users\\Lizette         E.
Gonzales\\workspace\\SampleProject\\src\\edad\\mango.png"));
                    katchamita.setBackground(Color. green);
                    katchamita.setFont(new Font("Arial", Font.BOLD, 15));
                    katchamita.setBounds(100, 200, 200, 70);
                    frame.getContentPane().add(katchamita);

                    katchamita.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nAlso known as the Indian mango
because of its origin, these mangoes are "
                                                + "smaller and rounder than carabao and pico
mangoes. It is also best eaten unripe "
                                                + "or green."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nThe Katchamita mango takes 120 to
140 days from fruit set to harvest a "
                                                + "\nmature mango fruit. At maturity,
shoulders (sides) of mango fruits get raised, "
                                                + "\nand partly attached to the stalk gets
sunken. The dark green fruits start turning "
                                                + "\npale green to yellowish at maturity.");

                           }
                    });


                    ataulfo = new JButton("Ataulfo");
```

```
                    ataulfo.setIcon(new          ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\mango.png"));
                    ataulfo.setBackground(Color. green);
                    ataulfo.setFont(new Font("Arial", Font.BOLD, 15));
                    ataulfo.setBounds(100, 300, 200, 70);
                    frame.getContentPane().add(ataulfo);

                    ataulfo.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nThe 'Ataúlfo' mango is a mango
cultivar from Mexico. Ataulfo mangos are golden "
                                                + "\nyellow and generally weigh between 6 and
10 ounces (170 and 280 g), with a somewhat "
                                                + "\nsigmoid (oblong) shape and a gold-yellow
skin. The flesh is not fibrous, and the pit "
                                                + "\nis thin."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nFarmers begin harvesting their
Ataulfo crop in Oaxaca and Chiapas in mid to late "
                                                + "\nJanuary. Small amounts will begin to
cross the border in early February, and imports "
                                                + "\nbegin to really pick up in March.");

                           }
                    });

                    piko = new JButton("Piko");
                    piko.setIcon(new            ImageIcon("C:\\Users\\Lizette          E.
Gonzales\\workspace\\SampleProject\\src\\edad\\mango.png"));
                    piko.setBackground(Color. green);
                    piko.setFont(new Font("Arial", Font.BOLD, 15));
                    piko.setBounds(100, 400, 200, 70);
                    frame.getContentPane().add(piko);

                    piko.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nPico mangoes are characterized by
highly elongated fruits, reaching up to 12.5 "
                                                + "\ncentimetres (4.9 in) in length but only
around 8 cm (3.1 in) in diameter. "
                                                + "\nIt is distinctly flattened in comparison
to the Carabao mango. "
                                                + "\nRipe fruits are pale yellow to light
orange in color."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nThese shoots flower during the next
season after accumulating sufficient "
                                                + "\nmetabolites necessary for fruit-bud
differentiation. Thus the fruits will be ready "
                                                + "\nfor harvest in April-May from a plant
flowered during October-November.");
                           }
                    });

                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(500, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
```

```
                        }
                    });
                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
               frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }

}


//palay frame

class palay1 {

       private JFrame frame;
       private JLabel background;
       private Label title;
       private JButton dinurado, sinandomeng, milagrosa, brown, jasmine, back;
       private JTextArea container;
              public palay1()
       {
                    frame = new JFrame();
                    frame.setBounds(200,0, 1050, 700);
                    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                    frame.getContentPane().setLayout(null);

                    title = new Label("                                    Different Types of
Rice");
                    title.setFont(new Font("Arial", Font.BOLD, 30));
                    title.setBounds(100, 20, 820, 70);
                    title.setBackground(Color.orange);
                    frame.getContentPane().add(title);

                    container = new JTextArea();
                    container.setBackground(Color. white);
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setBounds(320, 100, 600,500);
                    container.setEditable(true);
                    frame.getContentPane().add(container);

                    dinurado = new JButton("Dinurado");
                    dinurado.setIcon(new         ImageIcon("C:\\Users\\Lizette         E.
Gonzales\\workspace\\SampleProject\\src\\edad\\palay.png"));
                    dinurado.setBackground(Color. green);
                    dinurado.setFont(new Font("Arial", Font.BOLD, 15));
                    dinurado.setBounds(100, 100, 200, 70);
                    frame.getContentPane().add(dinurado);

                    dinurado.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){

                                  container.setText("Fruit Description"
                                                + "\n\n\nDinorado is a long-grain rice with
a fragrant aroma and smooth, shiny appearance. "
                                                + "\nIt fluffs upon cooking and becomes
sweet, chewy, and slightly sticky. Merchants "
                                                + "\nproudly label it a “100% Philippine
product.” It's readily available in supermarkets "
                                                + "\nand fetches a premium price."
```

```
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nIf Dinorado rice is planted during
the wet season, which typically starts around "
                                                + "\nMay or June and lasts until November,
the harvest time may fall around October to "
                                                + "\nDecember. On the other hand, if it is
planted during the dry season, which begins "
                                                + "\naround November and ends in April or
May, the harvest time may be between "
                                                + "\nFebruary and April.");

                        }
                });


                sinandomeng = new JButton("Sinandomeng");
                sinandomeng.setIcon(new        ImageIcon("C:\\Users\\Lizette        E.
Gonzales\\workspace\\SampleProject\\src\\edad\\palay.png"));
                sinandomeng.setBackground(Color. green);
                sinandomeng.setFont(new Font("Arial", Font.BOLD, 15));
                sinandomeng.setBounds(100, 200, 200, 70);
                frame.getContentPane().add(sinandomeng);

                sinandomeng.addActionListener(new ActionListener(){
                       public void actionPerformed(ActionEvent e){

                              container.setText("Fruit Description"
                                                + "\n\n\nLam Rice variant is the Sinandomeng,
a traditional favorite , which is white "
                                                + "\nand long grain. Cooked Sinandomeng is
soft, slightly chewy and fragrant specially "
                                                + "\nwhen newly harvested. The Mrs. Lam
Sinandomeng variants are Sinandomeng Whole "
                                                + "\nGrain, Long Grain, Sinandomeng Special,
Intan and Sinandomeng."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nIf Sinandomeng rice is planted
during the wet season, which typically starts around "
                                                + "\nMay or June and lasts until November,
the harvest time may fall around October to "
                                                + "\nDecember. On the other hand, if it is
planted during the dry season, which begins "
                                                + "\naround November and ends in April or
May, the harvest time may be between "
                                                + "\nFebruary and April.");

                        }
                });



                milagrosa = new JButton("Milagrosa");
                milagrosa.setIcon(new         ImageIcon("C:\\Users\\Lizette         E.
Gonzales\\workspace\\SampleProject\\src\\edad\\palay.png"));
                milagrosa.setBackground(Color. green);
                milagrosa.setFont(new Font("Arial", Font.BOLD, 15));
                milagrosa.setBounds(100, 300, 200, 70);
                frame.getContentPane().add(milagrosa);

                milagrosa.addActionListener(new ActionListener(){
                       public void actionPerformed(ActionEvent e){

                              container.setText("Fruit Description"
                                                + "\n\n\nIn the Philippines, this is called
malagkit, literally “viscous” (sticky). "
                                                + "\nThis type of rice is used for delicacies
that can be considered cakes, sweet treats "
```

```
                                                + "\nor desserts. Rice-eating populations
have a rich vocabulary when it comes to "
                                                + "\ndescribing rice "
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nThe ideal harvest time of Milagrosa
Rice lies between 130 and 136 days after "
                                                + "\nsowing for late, 113 and 125 for medium,
and 110 days for early-maturing varieties. "
                                                + "\nFor dry season harvesting, an optimum
time is 28 to 35 days after heading.");
                        }
                });


                brown = new JButton("Brown Rice");
                brown.setIcon(new           ImageIcon("C:\\Users\\Lizette           E.
Gonzales\\workspace\\SampleProject\\src\\edad\\palay.png"));
                brown.setBackground(Color. green);
                brown.setFont(new Font("Arial", Font.BOLD, 15));
                brown.setBounds(100, 400, 200, 70);
                frame.getContentPane().add(brown);

                brown.addActionListener(new ActionListener(){
                       public void actionPerformed(ActionEvent e){

                              container.setText("Fruit Description"
                                                +  "\n\n\nBrown  rice  is  a  food  often
associated with healthy eating. Considered a whole "
                                                + "\ngrain, brown rice is less processed than
white rice, which has had its hull, bran "
                                                + "\nand germ removed. Brown rice only has
the hull (a hard protective covering) "
                                                +  "\nremoved,  leaving  the  nutrient-packed
bran and germ. "
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nBrown rice is harvested around 3 to
6 months after planting.Brown rice is "
                                                + "\nusually planted during the wet or dry
season, with the specific timing depending on "
                                                +  "\nthe  region  and  prevailing  weather
patterns.");
                       }
                });

                jasmine = new JButton("Jasmine");
                jasmine.setIcon(new           ImageIcon("C:\\Users\\Lizette           E.
Gonzales\\workspace\\SampleProject\\src\\edad\\palay.png"));
                jasmine.setBackground(Color. green);
                jasmine.setFont(new Font("Arial", Font.BOLD, 15));
                jasmine.setBounds(100, 500, 200, 70);
                frame.getContentPane().add(jasmine);

                jasmine.addActionListener(new ActionListener(){
                       public void actionPerformed(ActionEvent e){

                              container.setText("Fruit Description"
                                                + "\n\n\nJasmine rice, also known as Thai
fragrant rice, is an aromatic “long-grain” "
                                                + "\nrice where each grain is about four times
as long as it is wide. Jasmine rice comes in "
                                                + "\na variety of colors. White jasmine rice,
in particular, is largely processed and has "
                                                + "\nmore nutritional similarities to white
rice than to brown jasmine rice."
                                                + "\n\n\nHarvest Season/Time"
                                                + "\n\n\nThe rice is planted only one crop
annually which its harvesting season is in "
```

```
                                                + "\nNovember and December. Thai Hom Mali
Jasmine Rice is soft, slightly sweet and sticky "
                                                + "\nafter cooking. Its fragrance also
enhancesthe flavor.");
                        }
                });
                back = new JButton("Back");
                back.setBackground(Color. green);
                back.setFont(new Font("Arial", Font.BOLD, 20));
                back.setBounds(500, 610, 200, 70);
                frame.getContentPane().add(back);
                back.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                new Information1();
                                frame.dispose();
                        }
                });

                background = new JLabel(new ImageIcon("C:\\Users\\Lizette E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                background.setBounds(0,0, 1050, 700);
                background.setLayout(new FlowLayout());

                frame.getContentPane().add(background);
             frame.setResizable(false);
                frame.setTitle("Infro-Crop");
                frame.pack();
                frame.setVisible(true);
                frame.setSize(1050, 720);
            }


}


// pineapple frame

class pineapple1 {

       private JFrame frame;
       private JLabel background;
       private Label title;
       private JButton back;
       private JTextArea container;
              public pineapple1()
       {
                frame = new JFrame();
                frame.setBounds(200,0, 1050, 700);
                frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                frame.getContentPane().setLayout(null);

                title = new Label("                                        Description of
Pineapple");
                title.setFont(new Font("Arial", Font.BOLD, 30));
                title.setBounds(100, 20, 820, 70);
                title.setBackground(Color.orange);
                frame.getContentPane().add(title);

                container = new JTextArea();
                container.setBackground(Color. white);
                container.setFont(new Font("Arial", Font.BOLD, 15));
                container.setBounds(100, 100, 820,500);
                container.setEditable(true);
                frame.getContentPane().add(container);

                container.setText("Fruit Description"
```

```
                                + "\n\n\n Pineapples have yellow or white pulp, fleshy,
aromatic, juicy and sweet. In the fruit there is a fibrous "
                                + "\naxis that extends from the crown to the pedicle.
Mature pineapples have a very singular fragrance, a beautiful "
                                + "\ncolour and pleasant bittersweet taste."
                                + "\n\n\nHarvest Season/Time"
                                +  "\n\n\nUnder natural conditions, pineapple comes to
harvest during May-August. The fruit usually ripens about 5 "
                                + "\nmonths after flowering. Irregular flowering results
in the harvesting spread over a long period.");

                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(420, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });

                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
               frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }


}

// potato frame

class potato1 {

       private JFrame frame;
       private JLabel background;
       private Label title;
       private JButton back;
       private JTextArea container;
              public potato1()
       {
                    frame = new JFrame();
                    frame.setBounds(200,0, 1050, 700);
                    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                    frame.getContentPane().setLayout(null);

                    title = new Label("                                        Description of
Potato");
                    title.setFont(new Font("Arial", Font.BOLD, 30));
                    title.setBounds(100, 20, 820, 70);
                    title.setBackground(Color.orange);
                    frame.getContentPane().add(title);

                    container = new JTextArea();
                    container.setBackground(Color. white);
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setBounds(100, 100, 820,500);
                    container.setEditable(true);
```

```
                    frame.getContentPane().add(container);

                    container.setText("Fruit Description"
                                  +  "\n\n\n Potato fruits are a succulent but inedible
spherical, yellow-green berry, up to 4cm across. Underground, "
                                  + "\nthe edible root forms a tuber that can be a range of
colours, sizes and shapes, depending on the cultivated "
                                  + "\nvariety (cultivar)."
                                  + "\n\n\nHarvest Season/Time"
                                  + "\n\n\nEarly potatoes can be harvested as early as mid-
June and second earlies take a few more weeks to "
                                  + "\nmature, being ready to dig up around July and August.
Harvesting of maincrop potatoes usually takes place "
                                  + "\nlater, from late August to October.");

                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(420, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });

                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                          frame.getContentPane().add(background);
                      frame.setResizable(false);
                          frame.setTitle("Infro-Crop");
                          frame.pack();
                          frame.setVisible(true);
                          frame.setSize(1050, 720);
                    }


}

//sugarcane frame
class sugarcane1 {

       private JFrame frame;
       private JLabel background;
       private Label title;
       private JButton back;
       private JTextArea container;
              public sugarcane1()
       {
                    frame = new JFrame();
                    frame.setBounds(200,0, 1050, 700);
                    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                    frame.getContentPane().setLayout(null);

                    title = new Label("                                          Description of
Sugarcane");
                    title.setFont(new Font("Arial", Font.BOLD, 30));
                    title.setBounds(100, 20, 820, 70);
                    title.setBackground(Color.orange);
                    frame.getContentPane().add(title);

                    container = new JTextArea();
                    container.setBackground(Color. white);
```

```
                    container.setFont(new Font("Arial", Font.BOLD, 15));
                    container.setBounds(100, 100, 820,500);
                    container.setEditable(true);
                    frame.getContentPane().add(container);

                    container.setText("Fruit Description"
                                  + "\n\n\n Sugarcane, scientifically known as Saccharum
officinarum, is a tall perennial grass belonging to the"
                                  + "\nPoaceae family. It is widely cultivated for its high
sugar content, which is extracted from its stalks. "
                                  + "\nSugarcane is primarily grown in tropical and
subtropical regions due to its preference for warm climates."
                                  + "\n\n\nHarvest Season/Time"
                                  + "\n\n\nSugarcane is not a sensitive crop and can be grown
in almost all types of soil, from sandy to clay "
                                  + "\nloams and from acidic volcanic soils to calcareous
sedimentary deposits. The harvest period is from "
                                  + "\nOctober to December and ends in May.");

                    back = new JButton("Back");
                    back.setBackground(Color. green);
                    back.setFont(new Font("Arial", Font.BOLD, 20));
                    back.setBounds(420, 610, 200, 70);
                    frame.getContentPane().add(back);
                    back.addActionListener(new ActionListener(){
                           public void actionPerformed(ActionEvent e){
                                  new Information1();
                                  frame.dispose();
                           }
                    });

                    background   =   new   JLabel(new   ImageIcon("C:\\Users\\Lizette   E.
Gonzales\\workspace\\SampleProject\\src\\edad\\7.png"));
                    background.setBounds(0,0, 1050, 700);
                    background.setLayout(new FlowLayout());

                    frame.getContentPane().add(background);
              frame.setResizable(false);
                    frame.setTitle("Infro-Crop");
                    frame.pack();
                    frame.setVisible(true);
                    frame.setSize(1050, 720);
             }


}
```

Alyssa’s Part

```
package project2;

import java.awt.event.*;
import javax.swing.*;
import java.awt.*;

//Lend Button Page
class lend {
       private JFrame frame;
       private JButton one, two, three, four, five, six, seven, eight, nine, ten, eleven,
twelve, back;
       private JTextArea display2;
       private JLabel table;


       public lend(){
```

```
            frame= new JFrame("Lend Me");
            frame.setSize(1050,700);
            frame.setResizable(false);
            frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            frame.setLocation(200,0);
            frame.setLayout(new BorderLayout());
            frame.setContentPane(new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\LEND ME!- Programs for Farmers.png")));
            frame.setLayout(new FlowLayout());
            frame.setLayout(null);


            //textArea
            display2 = new JTextArea();
            display2.setBounds(560,90,450,500);
            display2.setFont(new Font("Rockwell", Font.BOLD, 15));
            display2.setBackground(Color.WHITE);
            frame.add(display2);
            display2.setEditable(false);

            //Table
            table     =     new     JLabel(new     ImageIcon("C:\\Users\\Lizette     E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\table.png"));
            table.setBounds(30,90,500,500);
            frame.add(table);

            //Buttons
            one = new JButton();
            one.setFont(new Font("Rockwell", Font.BOLD, 15));
            one.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\1.png"));
            one.setBackground(Color.YELLOW);
            one.setBounds(30,600,50,50);
            frame.add(one);

            one.addActionListener(new ActionListener(){
                  public void actionPerformed(ActionEvent e){
                        display2.setText("\n\tSugarcane Financing Program\n"
                                    + "\n\n\tThe program is designed to provide credit\n
assistance to sugar planters, millers,traders and \nfarmer's cooperatives."
                                    + "\n\n  How to avail of these these Lending Program:
"
                                    + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                    + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                    + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                    + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                    +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)" );
                  }
            });

            two = new JButton();
            two.setFont(new Font("Rockwell", Font.BOLD, 15));
            two.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\2.png"));
            two.setBackground(Color.YELLOW);
            two.setBounds(90,600,50,50);
            frame.add(two);

            two.addActionListener(new ActionListener(){
                  public void actionPerformed(ActionEvent e){
                        display2.setText("\n\tSulong Saka Financing Program\n"
```

```
                                        + "\n\n      A lending window to provide credit
assistance to various\n qualified stakeholders to support their productions,\n processing,"
                                        + "marketing of high-value crops such as banana,\n
cassava, coffee, oil palm, rubber, vegetables, among others"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");

                        }
                });

                three = new JButton();
                three.setFont(new Font("Rockwell", Font.BOLD, 15));
                three.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\3.png"));
                three.setBackground(Color.YELLOW);
                three.setBounds(150,600,50,50);
                frame.add(three);

                three.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n\tCoconut Financing Program\n"
                                        + "\n\n       The program aims to provide credit
assistance to coconut\n industry"
                                        +   "stakeholders   engaged   in   production   and
processing"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");


                        }
                });

                four = new JButton();
                four.setFont(new Font("Rockwell", Font.BOLD, 15));
                four.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\4.png"));
                four.setBackground(Color.YELLOW);
                four.setBounds(210,600,50,50);
                frame.add(four);

                four.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n                        Rural  Agri-enterprise
Partnershipfor Inclusive\n        Development (RAPID)"
                                        + "\n\n     sustainably increase income of small farmers
and\n  unemployed rural women and men acrossselected\n  agriculturebased value chains; and
"
```

```
                                        + "provide strategic\n  enabling conditions for the
sustained growth of\n  agriculturebased Micro,Small and Medium"
                                        + "Enterprises\n  (MSMEs) in commodity value chains
with comparative\n  advantage, market demand, growth"
                                        + "potential, backward\n  linkages to small farmers
and job creation effects"
                                        +  "\n\n    How  to  avail  of  these  theseLending
Programs: "
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                        }
                });

                five = new JButton();
                five.setFont(new Font("Rockwell", Font.BOLD, 15));
                five.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\5.png"));
                five.setBackground(Color.YELLOW);
                five.setBounds(270,600,50,50);
                frame.add(five);

                five.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n\tAgri-Mechanization Financing Program"
                                        + "\n\n   This program is designed to provide credit
assistance"
                                        + "\n   to promote mechanization of production &
post-production"
                                        +  "\n    processes  from  planting-  harvesting-
processing to increase efficiency, "
                                        + "\n  reduce postharvest lossesand lower cost of
production"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                        }
                });


                six = new JButton();
                six.setFont(new Font("Rockwell", Font.BOLD, 15));
                six.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\6.png"));
                six.setBackground(Color.YELLOW);
                six.setBounds(330,600,50,50);
                frame.add(six);

                six.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n\tFarm Tourism Financing Program"
```

```
                                        + "\n\n    a loan facility to assist farm tourism
operators"
                                        + "\n  to develop farm tourism camps or activities
that"
                                        + "\n  allow visitors to enjoy farming or fishing"
                                        +  "experience  through  education,  recreation  or
leisure"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                        }
                });

                seven = new JButton();
                seven.setFont(new Font("Rockwell", Font.BOLD, 15));
                seven.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\7.png"));
                seven.setBackground(Color.YELLOW);
                seven.setBounds(390,600,50,50);
                frame.add(seven);

                seven.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n     Financing Program for Greenhouse Farming
Systems"
                                        + "\n\n         Aimed at enhancing the viability,
sustainability "
                                        + "\n     and competitiveness of high value crop
production by"
                                        + "\n     farmers by adopting greenhouse farming
technology"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                        }
                });

                eight = new JButton();
                eight.setFont(new Font("Rockwell", Font.BOLD, 15));
                eight.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\8.png"));
                eight.setBackground(Color.YELLOW);
                eight.setBounds(450,600,50,50);
                frame.add(eight);

                eight.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n                    Harnessing  Agribusiness
Opportunities\n Through Robust and Vibrant"
```

```
                                        +   "Entrepreneurship   Supportive   of\n   Peaceful
Transformation (HARVEST)"
                                        + "\n\n  A JICA funded project to provide credit and
technical "
                                        +   "\n     assistance   to   cooperatives,   large
agribusiness enterprises, CFIs"
                                        +  "\n   and  SMEs  in  conflict  affected  areas  in
Mindanao"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                                }
                });

                nine = new JButton();
                nine.setFont(new Font("Rockwell", Font.BOLD, 15));
                nine.setIcon(new                ImageIcon("C:\\Users\\Lizette                E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\9.png"));
                nine.setBackground(Color.YELLOW);
                nine.setBounds(510,600,50,50);
                frame.add(nine);

                nine.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n             Agricultural Production Credit
Program (APCP)"
                                        + "\n\n       A program tie-up among DA, DAR,DENR,
ACPC and"
                                        +  "\n   LBP  which  provides  credit  assistance  and
other support"
                                        + "\n   services to ARBs through their respective
organizations"
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                                }
                });

                ten = new JButton();
                ten.setFont(new Font("Rockwell", Font.BOLD, 15));
                ten.setIcon(new                ImageIcon("C:\\Users\\Lizette                E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\10.png"));
                ten.setBackground(Color.YELLOW);
                ten.setBounds(570,600,55,50);
                frame.add(ten);

                ten.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
```

```
                        display2.setText("\n              Agricultural Competitiveness
Enhancement Fund"
                                        + "\n\n       a credit window which aims to help
increase the"
                                        + "\n   productivity of farmers & fisherfolk and
their cooperatives"
                                        +  "\n    and associations, and micro and small
enterprises by"
                                        +  "\n  providing financial assistance for the
acquisition and"
                                        + "\n establishment of agricultural production and
processing"
                                        + "\n facilities, farm inputs and farm improvement."
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                        }
                });

                eleven = new JButton();
                eleven.setFont(new Font("Rockwell", Font.BOLD, 15));
                eleven.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\11.png"));
                eleven.setBackground(Color.YELLOW);
                eleven.setBounds(635,600,55,50);
                frame.add(eleven);

                eleven.addActionListener(new ActionListener(){
                        public void actionPerformed(ActionEvent e){
                                display2.setText("\n             Expanded Rice Credit Assistance
under the Rice"
                                        +  "\n           Competitiveness  Enhancement  Fund
(ERCARCEF)"
                                        + "\n\n     a credit facility which aims to help
increase the"
                                        + "\n    productivity of rice farmers and their
cooperatives by"
                                        + "\n    providing financial assistance for rice
production,\n  acquisition"
                                        + "and establishment of agricultural production\n
and processing"
                                        + "facilities, and farm improvement.\n    Program
fund."
                                        + "\n\n  How to avail of these theseLending Program:
"
                                        + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                        + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                        + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                        + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                        +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                        }
                });
```

```
            twelve = new JButton();
            twelve.setFont(new Font("Rockwell", Font.BOLD, 15));
            twelve.setIcon(new             ImageIcon("C:\\Users\\Lizette             E.
Gonzales\\workspace\\SampleProject\\src\\alyicon\\12.png"));
            twelve.setBackground(Color.YELLOW);
            twelve.setBounds(700, 600,55,50);
            frame.add(twelve);

            twelve.addActionListener(new ActionListener(){
                  public void actionPerformed(ActionEvent e){
                        display2.setText("\n            Special Credit Program under the
Sugarcane Industry"
                                    + "\n   Development Act (SCP-SIDA)"
                                    +  "\n\n   Provides  socialized  credit  facility  to
sugarcane farmers"
                                    + "\n and other stakeholders"
                                    + "\n\n  How to avail of these theseLending Program:
S"
                                    + "\n\n   1. Endorsement of potential borrower by
partneragencies,\n  if applicable"
                                    + "\n  2. Submission of Loan application and other
documentary\n  requirements to LendingUnit/Center"
                                    + "\n   3. Loan processing/approval(by appropriate
LBP Loan\n  Approving Group)"
                                    + "\n  4. Attendance to Basic Financial Literacy and
Loan\n  Orientation Seminar, if applicable"
                                    +"\n  5. Opening of deposit account to nearest LBP
Branch\n  (for crediting of loan proceeds)");
                  }
            });

            back = new JButton("");
            back.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconback.png"));
            back.setBackground(Color.GREEN);
            back.setBounds(840,600,170,50);
            frame.add(back);

            back.addActionListener(new ActionListener(){
                  public void actionPerformed(ActionEvent e){
                        new Start();
                        frame.dispose();
                  }
            });


            frame.setVisible(true);


      }
}
```

Lizette’s Part

```
package project2;

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

import javax.swing.*;

//Production Cost Page
class ProductionCost implements ActionListener{
      private JFrame frame;
      private JButton banana, coconut, camote, cassava, corn, mango, palay, pineapple,
potato, sugarcane, calculator, back;
```

```
	private JTextArea display;

	public ProductionCost(){

		frame= new JFrame("Expenses");
		frame.setSize(1050,700);
		frame.setResizable(false);
		frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
		frame.setLocation(200,0);
		frame.setContentPane(new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\icon\\cost_bg.png")));
		frame.setLayout(new FlowLayout());
		frame.setLayout(null);

		banana = new JButton("");
		banana.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconbanana.png"));
		banana.setBounds(50,100,170,50);
		frame.add(banana);
		banana.addActionListener(this);
		banana.setName("banana");

		coconut = new JButton("");
		coconut.setIcon(new             ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconcoconut.png"));
		coconut.setBounds(50,200,170,50);
		frame.add(coconut);
		coconut.addActionListener(this);
		coconut.setName("coconut");

		camote = new JButton("");
		camote.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconcamote.png"));
		camote.setBounds(50,300,170,50);
		frame.add(camote);
		camote.addActionListener(this);
		camote.setName("camote");

		cassava = new JButton("");
		cassava.setIcon(new             ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconcassava.png"));
		cassava.setBounds(50,400,170,50);
		frame.add(cassava);
		cassava.addActionListener(this);
		cassava.setName("cassava");

		corn = new JButton("");
		corn.setIcon(new               ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconcorn.png"));
		corn.setBounds(50,500,170,50);
		frame.add(corn);
		corn.addActionListener(this);
		corn.setName("corn");

		mango = new JButton("");
		mango.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconmango.png"));
		mango.setBounds(250,100,170,50);
		frame.add(mango);
		mango.addActionListener(this);
		mango.setName("mango");

		palay = new JButton("");
		palay.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconpalay.png"));
		palay.setBounds(250,200,170,50);
		frame.add(palay);
```

```
            palay.addActionListener(this);
            palay.setName("palay");

            pineapple = new JButton("");
            pineapple.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconpineapple.png"));
            pineapple.setBounds(250,300,170,50);
            frame.add(pineapple);
            pineapple.addActionListener(this);
            pineapple.setName("pineapple");

            potato = new JButton("");
            potato.setIcon(new             ImageIcon("C:\\Users\\Lizette             E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconpotato.png"));
            potato.setBounds(250,400,170,50);
            frame.add(potato);
            potato.addActionListener(this);
            potato.setName("potato");

            sugarcane = new JButton("");
            sugarcane.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconsugarcane.png"));
            sugarcane.setBounds(250,500,170,50);
            frame.add(sugarcane);
            sugarcane.addActionListener(this);
            sugarcane.setName("sugarcane");

            calculator = new JButton("");
            calculator.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconcalculator.png"));
            calculator.setBounds(250,600,170,50);
            frame.add(calculator);
            calculator.addActionListener(this);
            calculator.setName("calculator");

            back = new JButton("");
            back.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconback.png"));
            back.setBounds(50,600,170,50);
            frame.add(back);
            back.addActionListener(this);
            back.setName("back");


            display = new JTextArea();
            display.setBackground(Color.WHITE);
            display.setFont(new Font("Rockwell", Font.BOLD, 15));
            display.setEditable(false);
            display.setBounds(490, 110, 500, 500);
            frame.add(display);


            frame.setVisible(true);
      }
      public void actionPerformed(ActionEvent e) {
            JButton choice = (JButton)e.getSource();
            String choices = choice.getName();

            if (choices == "banana"){
                  display.setText("\nPossible production cost in banana crops in one
hectare:\n"
                              + "\n\nPlanting Materials = Php 19,247.80\nManure(FYM) =
Php 20,591.80\nFertilizer(Urea,DAP,SOP) = Php 25,064.10"
                              + "\nMicro-nutrients = Php 3,938.46\n Pesticides = Php
16,017.15\n Labor = Php 29,615.14\n Machine = Php 29,229.12"
                              + "\nMarketing/Transport = Php 3,041.76\n Rent/Contract of
orchard = Php 41,257.79\n Others = Php 12,422.77\n\n"
```

```
                                    + "Total = Php 200,425.89 ");
              }
              else if(choices == "coconut"){
                    display.setText("\nPossible production cost in coconut crops in one
hectare:\n"
                                    +  "\n\nFixed  Cost\nTax  =  Php  166,124.79\n  Tool's
Depreciation = Php 5,262.02\n"
                                    + "\nCoconut processing/n Weeding = Php 292,605.44\n Climb
= Php 591,503.85\n Collecting = Php 372,520.86"
                                    +  "\nPeeling  =  Php  158,573.62\n\n  Total  =  Php
1,586,590.58");
              }
              else if(choices == "camote"){
                    display.setText("\nPossible production cost in camote crops in one
hectare:\n"
                                    +  "\n\nLand  preparation  (tractor  services)  =  Php
1,754.69\n Labour = Php 5,590.82\n Sweet potato (vien) = Php 4,835.70"
                                    + "\nFertilizer = Php 1,089.12\n Transportation/fuel = Php
329.16\n Interest on capital = Php 1,223.95\n"
                                    + "Rent = Php 1,512.67\n Depreciation = Php 1,500\n Labour
= Php 1,621.58\n\nTotal  = Php 193,172");
              }
              else if(choices == "cassava"){
                    display.setText("\nPossible production cost in cassava crops in one
hectare:\n"
                                    + "\n\nCutting = Php 1,491.76\n Fertilizer per kg = Php
1,278.65\n Herbicide per liter = Php 1,424.89"
                                    + "\nTransportation = Php 2,852.43\n Land clearing = Php
10,849.46\n Tillage = Php 8,152.29\n Planting = Php 30,609.87"
                                    + "\nWeeding = Php 3,059.59\n Fertilizer = Php 7,049.30\n
Harvesting = Php 28,914.81\n Labour cost = Php 24,534.44"
                                    + "\nLand = 7,865.87 \nImplements = Php 45,513.15\n\nTotal
= Php 121,522.07");
              }
              else if(choices == "corn"){
                    display.setText("\nPossible  production  cost  in  corn  crops  in  one
hectare:\n"
                                    +  "\n\nLand  preparation  =  Php  39,584.79\nSeed  =  Php
5,875.57\nUrea = Php 3,774.38\n DAP = Php 6,526.68"
                                    +  "\nIrrigation  =  Php  5,359.72\n  Pesticides  =  Php
7,578.80\n FYM = Php 6,053.83\n Labour = Php 12,138.71"
                                    +  "\nLand  rent  =  Php  23,518.07\n\n  Total  =  Php
102,831.75");
              }
              else if(choices == "mango"){
                    display.setText("\nPossible  production  cost  in  mango  crops  in  one
hectare:\n"
                                    + "\n\nLand preparation = Php 13,782\nDigging and filling
of pits = Php 8,701\nCost of irrigation = Php 4,889.44"
                                    + "\nCost of plants = Php 5,428\n Cost of replacement plant
= Php 2,561\n Manures and fertilizer = Php 6,359"
                                    + "\nTransportation of plants = Php 6781.24\n Plantation
cost = Php 4,702.44\n Intercultural operation = Php 7,770.44"
                                    + "\nPermanent fencing = Php 5,663.84\n Cost of equipments
= Php 46,819.4\n\nTotal cost = Php 113,457.8");
              }
              else if(choices == "palay"){
                    display.setText("\nPossible  production  cost  in  palay  crops  in  one
hectare:\n"
                                    + "\n\nPower tiller cost = Php 19,500\n Labor cost = Php
10,050\nSeed cost = Php 2,078\nFertilizer cost = Php 5,046\n"
                                    +  "Manure  cost  =  Php  3,113.49\n  Insecticides  =  Php
2,113.88\n Irrigation charge = Php 4,456\nCapital cost = Php 5,785"
                                    +  "\nLand  rental  cost  Php  15,653\n\nTotal  cost  =  Php
67,795.37");
              }
              else if(choices == "pineapple"){
```

```
                    display.setText("\nPossible production cost in pineapple crops in one
hectare:\n"
                                  + "\n\nLand preparation = Php 9,100\nPlanting fertilizer
application = Php 13,286\nWeeding = Php 7,644\n"
                                  + "Harvesting and carrying = Php 9,646\n Power tiller =
Php 7,700\n Seedling = Php 24,124\n"
                                  +  "Manure  =  2,966.6\n  Fertilizer  =  Php  21,970\n
Insecticides = Php 5,034.12\n Vitamin = Php 6,402.24\n"
                                  + "Operating capital = Php 9,337.12\nLand use cost = Php
40,866.8\n Depreciation on farm implement = Php 3,827.72\n"
                                  + "\nTotal cost = Php 161,904.56");
             }
             else if(choices == "potato"){
                    display.setText("\nPossible  production  cost  in  potato  crops  in  one
hectare:\n"
                                  + "\n\nLand preparation = Php 12,200\n Seed = Php 6,012.6\n
Urea = Php 3,975\n DAP = Php 4,600\n"
                                  + "Irrigation = Php 4,440\nWeedicide = Php 3,640\n Chemical
fertilizer = Php 4,000\n FYM = Php 5,274.4"
                                  +  "\nLabour  =  Php  24,420\n  Picking  =  Php  6,240\n
Transportation = Php 16,689\n Land rent cost = Php 24,600\n"
                                  + "\nTotal cost = Php 105,811");
             }
             else if(choices == "sugarcane"){
                    display.setText("\nPossible production cost in sugarcane crops in one
hectare:\n"
                                  + "\n\nLand preparation = Php 14,500\nLabour cost = Php
32,700\n Tillage = Php 6,299\n"
                                  + "Fertilizer = Php 8,967.46\nSeed = Php 7,047\nIrrigation
= Php 7,600\nPesticides = Php 6,418\n"
                                  +  "Capital  =  Php  32,678\n  Land  rent  cost  =  Php
25,600\n\nTotal cost = Php 141,809.46");
             }
             else if(choices == "calculator"){
                    new Calculate();
                    frame.dispose();
             }
             else if(choices == "back"){
                    new Start();
                    frame.dispose();
             }

      }
}


//Calculator Page
class Calculate implements ActionListener{

      private JFrame frame1;
      private JLabel quantity, answer;
      private JTextField quantity1, answer1;
      private  JButton  Urea1,  Urea2,  ammosul,  complete,  ammophos,mop,  dap,  dithane,
mancozeb, funguran, cypermethrin, decis, malathion,clearout, roundup, back;
      private JTextArea display1;

      double quantityans, totalans;

      public Calculate(){

             frame1= new JFrame("Calculation");
             frame1.setSize(1050,700);
             frame1.setResizable(false);
             frame1.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
             frame1.setLocation(200,0);
             frame1.setContentPane(new    JLabel(new    ImageIcon("C:\\Users\\Lizette    E.
Gonzales\\workspace\\SampleProject\\src\\icon\\calculate_bg.png")));
```

```
            frame1.setLayout(new FlowLayout());
            frame1.setLayout(null);

            quantity = new JLabel("Enter the quantity:");
            quantity.setForeground(Color.WHITE);
            quantity.setFont(new Font("Bickham Script Pro", Font.BOLD, 18));
            quantity.setBounds(30,70,500,30);
            quantity.setFont(new Font("Bickham Script Pro", Font.BOLD, 16));
            frame1.add(quantity);
            quantity1  = new JTextField(50);
            quantity1.setFont(new Font("Bickham Script Pro", Font.BOLD, 18));
            quantity1.setBackground(Color.WHITE);
            quantity1.setBounds(200,70,150,30);
            frame1.add(quantity1);

            Urea1 = new JButton("");
            Urea1.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\urea1.png"));
            Urea1.setBounds(30,150,160,40);
            frame1.add(Urea1);
            Urea1.addActionListener(this);
            Urea1.setName("Urea1");

            Urea2 = new JButton("");
            Urea2.setIcon(new              ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\urea2.png"));
            Urea2.setBounds(250,150,160,40);
            frame1.add(Urea2);
            Urea2.addActionListener(this);
            Urea2.setName("Urea2");

            ammosul = new JButton("");
            ammosul.setIcon(new             ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\ammosul.png"));
            ammosul.setBounds(30,200,160,40);
            frame1.add(ammosul);
            ammosul.addActionListener(this);
            ammosul.setName("ammosul");

            complete = new JButton("");
            complete.setIcon(new            ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\complete.png"));
            complete.setBounds(250,200,160,40);
            frame1.add(complete);
            complete.addActionListener(this);
            complete.setName("complete");

            ammophos = new JButton("");
            ammophos.setIcon(new            ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\ammophos.png"));
            ammophos.setBounds(30,250,160,40);
            frame1.add(ammophos);
            ammophos.addActionListener(this);
            ammophos.setName("ammophos");

            mop = new JButton("");
            mop.setIcon(new               ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\mop.png"));
            mop.setBounds(250,250,160,40);
            frame1.add(mop);
            mop.addActionListener(this);
            mop.setName("mop");

            dap = new JButton("");
            dap.setIcon(new               ImageIcon("C:\\Users\\Lizette              E.
Gonzales\\workspace\\SampleProject\\src\\icon\\dap.png"));
            dap.setBounds(150,300,160,40);
```

```
            frame1.add(dap);
            dap.addActionListener(this);
            dap.setName("dap");

            dithane = new JButton("");
            dithane.setIcon(new             ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\dithane.png"));
            dithane.setBounds(30,350,160,40);
            frame1.add(dithane);
            dithane.addActionListener(this);
            dithane.setName("dithane");

            mancozeb = new JButton("");
            mancozeb.setIcon(new             ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\mancozeb.png"));
            mancozeb.setBounds(250,350,160,40);
            frame1.add(mancozeb);
            mancozeb.addActionListener(this);
            mancozeb.setName("mancozeb");

            funguran = new JButton("");
            funguran.setIcon(new             ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\funguran.png"));
            funguran.setBounds(30,400,160,40);
            frame1.add(funguran);
            funguran.addActionListener(this);
            funguran.setName("funguran");

            cypermethrin = new JButton("");
            cypermethrin.setIcon(new          ImageIcon("C:\\Users\\Lizette           E.
Gonzales\\workspace\\SampleProject\\src\\icon\\cypermethrin.png"));
            cypermethrin.setBounds(250,400,160,40);
            frame1.add(cypermethrin);
            cypermethrin.addActionListener(this);
            cypermethrin.setName("cypermethrin");

            decis = new JButton("");
            decis.setIcon(new              ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\decis.png"));
            decis.setBounds(30,450,160,40);
            frame1.add(decis);
            decis.addActionListener(this);
            decis.setName("decis");

            malathion = new JButton("");
            malathion.setIcon(new            ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\malathion.png"));
            malathion.setBounds(250,450,160,40);
            frame1.add(malathion);
            malathion.addActionListener(this);
            malathion.setName("malathion");

            clearout = new JButton("CLEAR OUT");
            clearout.setIcon(new             ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\clear_out.png"));
            clearout.setBounds(30,500,160,40);
            frame1.add(clearout);
            clearout.addActionListener(this);
            clearout.setName("clearout");

            roundup = new JButton("ROUND UP");
            roundup.setIcon(new             ImageIcon("C:\\Users\\Lizette            E.
Gonzales\\workspace\\SampleProject\\src\\icon\\round_up.png"));
            roundup.setBounds(250,500,160,40);
            frame1.add(roundup);
            roundup.addActionListener(this);
            roundup.setName("roundup");
```

```
		answer = new JLabel("Total:");
		answer.setBounds(30,570,500,30);
		answer.setFont(new Font("Bickham Script Pro", Font.BOLD, 18));
		answer.setForeground(Color.WHITE);
		frame1.add(answer);
		answer1 = new JTextField(50);
		answer1.setBackground(Color.WHITE);
		answer1.setFont(new Font("Bickham Script Pro", Font.BOLD, 18));
		answer1.setBounds(130,570,300,30);
		answer1.setEditable(false);
		frame1.add(answer1);

		back = new JButton("");
		back.setIcon(new               ImageIcon("C:\\Users\\Lizette               E.
Gonzales\\workspace\\SampleProject\\src\\icon\\iconback.png"));
		back.setBounds(30,620,170,50);
		frame1.add(back);
		back.addActionListener(this);
		back.setName("back");

		display1   =   new   JTextArea("Prices   for   every   item\n\n\nFertilizers
(50kg):\n\nUrea(Prilled) = Php 1,761.47\nUrea(Granular) = Php 1,759.84"
			+ "\nAmmosul = Php 875.14\nComplete = Php 1,452.87\nAmmophos =
Php 1,341.45\nMOP Php = 1,471.66\n DAP Php = 1,984.46\n\n\n"
			+ "Pesticide(per kg or liter):\nDithane Php = 464.17\nMancozeb =
Php 426.21\n Funguran = Php 704.72\nCypermethrin = Php 320"
			+ "\nDecis = Php 1,108.33\nMalathion = Php 311.67\nClear out =
Php 460.83\nRound up = Php 500");
		display1.setBackground(Color.WHITE);
		display1.setFont(new Font("Rockwell", Font.BOLD, 17));
		display1.setEditable(false);
		display1.setBounds(490, 110, 500, 500);
		frame1.add(display1);


		frame1.setVisible(true);
	}
	public void actionPerformed(ActionEvent e) {
		JButton choice = (JButton)e.getSource();
		String choices = choice.getName();

		if (choices == "Urea1"){
			String ans;
			quantityans = Double.parseDouble(quantity1.getText());

			totalans = quantityans * 1761.47;
			ans = Double.toString(totalans);
			answer1.setText(ans);
		}
		else if(choices == "Urea2"){
			String ans;
			quantityans = Double.parseDouble(quantity1.getText());

			totalans = quantityans * 1759.84;
			ans = Double.toString(totalans);
			answer1.setText(ans);
		}
		else if(choices == "ammosul"){
			String ans;
			quantityans = Double.parseDouble(quantity1.getText());

			totalans = quantityans * 875.14;
			ans = Double.toString(totalans);
			answer1.setText(ans);
		}
		else if(choices == "complete"){
```

```
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 1452.87;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "ammophos"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 1341.45;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "mop"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 1471.66;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "dap"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 1984.46;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "dithane"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 464.17;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "mancozeb"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 426.21;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "funguran"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 704.72;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "cypermethrin"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

                totalans = quantityans * 320;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "decis"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());
```

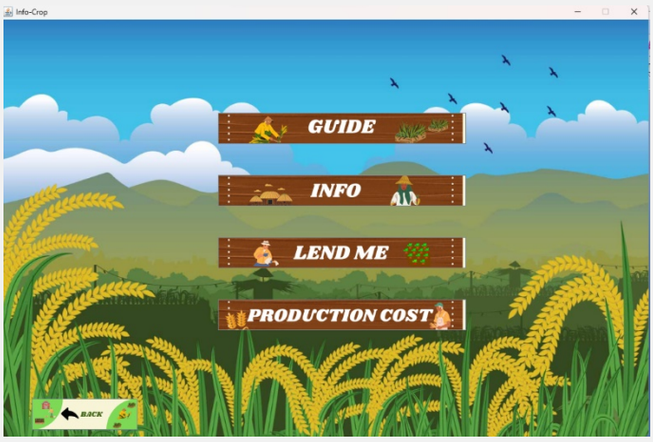
```
                totalans = quantityans * 1108.33;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "malathion"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

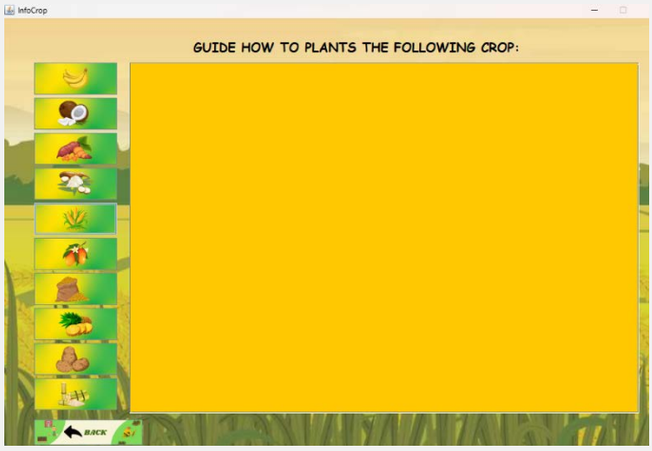
                totalans = quantityans * 311.67;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "clearout"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

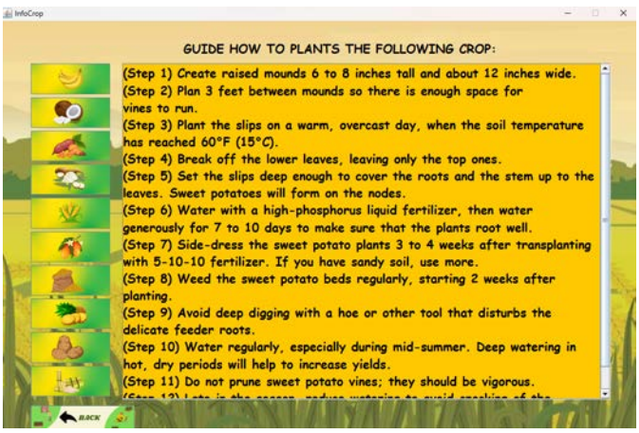
                totalans = quantityans * 460.83;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "roundup"){
                String ans;
                quantityans = Double.parseDouble(quantity1.getText());

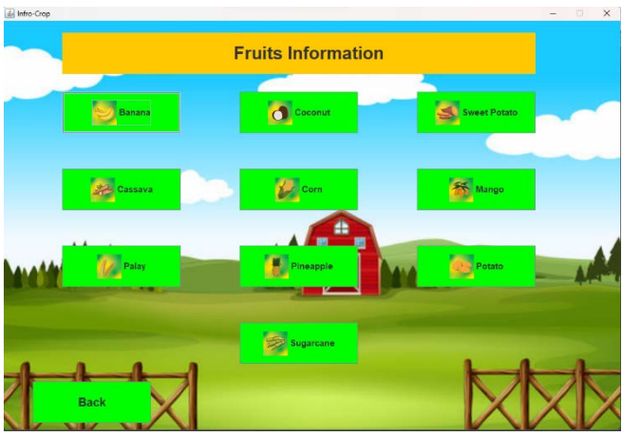
                totalans = quantityans * 500;
                ans = Double.toString(totalans);
                answer1.setText(ans);
            }
            else if(choices == "back"){
                new ProductionCost();
                frame1.dispose();
            }
        }
}
```

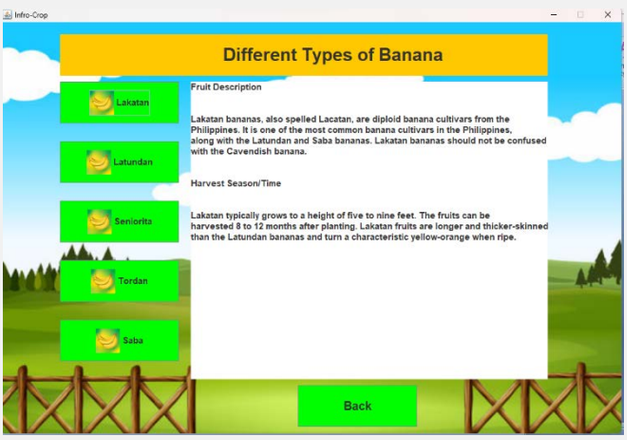
SAMPLE OUTPUT:

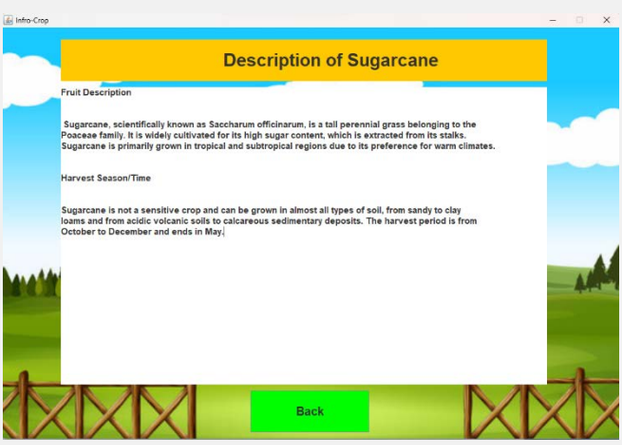

Info-Crop
GUIDE
INFO
LEND ME
PRODUCTION COST
BACK


InfoCrop
GUIDE HOW TO PLANTS THE FOLLOWING CROP:
BACK


InfoCrop
GUIDE HOW TO PLANTS THE FOLLOWING CROP:
(Step 1) Create raised mounds 6 to 8 inches tall and about 12 inches wide.
(Step 2) Plan 3 feet between mounds so there is enough space for vines to run.
(Step 3) Plant the slips on a warm, overcast day, when the soil temperature has reached 60°F (15°C).
(Step 4) Break off the lower leaves, leaving only the top ones.
(Step 5) Set the slips deep enough to cover the roots and the stem up to the leaves. Sweet potatoes will form on the nodes.
(Step 6) Water with a high-phosphorus liquid fertilizer, then water generously for 7 to 10 days to make sure that the plants root well.
(Step 7) Side-dress the sweet potato plants 3 to 4 weeks after transplanting with 5-10-10 fertilizer. If you have sandy soil, use more.
(Step 8) Weed the sweet potato beds regularly, starting 2 weeks after planting.
(Step 9) Avoid deep digging with a hoe or other tool that disturbs the delicate feeder roots.
(Step 10) Water regularly, especially during mid-summer. Deep watering in hot, dry periods will help to increase yields.
(Step 11) Do not prune sweet potato vines; they should be vigorous.
BACK

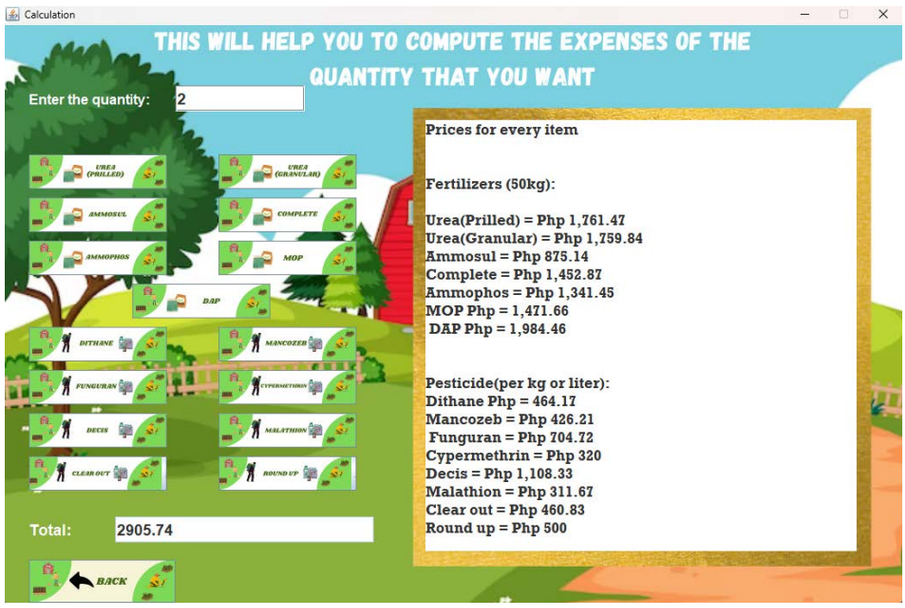

Info-Crop
Fruits Information
Banana
Coconut
Sweet Potato
Cassava
Corn
Mango
Palay
Pineapple
Potato
Sugarcane
Back


Info-Crop
Different Types of Banana
Lakatan
Latundan
Señorita
Tordan
Saba
Fruit Description
Lakatan bananas, also spelled Lacatan, are diploid banana cultivars from the Philippines. It is one of the most common banana cultivars in the Philippines, along with the Latundan and Saba bananas. Lakatan bananas should not be confused with the Cavendish banana.
Harvest Season/Time
Lakatan typically grows to a height of five to nine feet. The fruits can be harvested 8 to 12 months after planting. Lakatan fruits are longer and thicker-skinned than the Latundan bananas and turn a characteristic yellow-orange when ripe.
Back


Info-Crop
Description of Sugarcane
Fruit Description
Sugarcane, scientifically known as Saccharum officinarum, is a tall perennial grass belonging to the Poaceae family. It is widely cultivated for its high sugar content, which is extracted from its stalks. Sugarcane is primarily grown in tropical and subtropical regions due to its preference for warm climates.
Harvest Season/Time
Sugarcane is not a sensitive crop and can be grown in almost all types of soil, from sandy to clay loams and from acidic volcanic soils to calcareous sedimentary deposits. The harvest period is from October to December and ends in May.
Back


Lend Me
LEND ME! – PROGRAMS FOR FARMERS
No. Name of Lending Program Eligible Borrowers
1. Sugarcane Financing Program -Farmers' Cooperatives and Association
2. Sulong Saka Financing Program -Farmers Associations -Large Agribusiness Enterprises/ Corporation
3. Coconut Financing Program -Farmers Organizations -Agri-Industrial Enterprises
4. Rural Agri-enterprise Partnership for Inclusive Development -Farmers Association
5. Agri-Mechanization Financing Program -Cooperatives
6. Farm Tourism Financing Program -Cooperatives -Farmers Association
7. Financing Program for Greenhouse Farming Systems -Cooperatives/ Farmers'
8. Harnessing Agribusiness Opportunities Through Robust & Vibrant Entrepreneurship Supportiveof Peaceful Transformation -Cooperatives
9. Agricultural Production Credit Program (APCP) -Farmers' Organization/ People's Organizations,
10. Agricultural Competitiveness Enhancement Fund (ACEF) -Farmers Cooperatives & Associations
11. Expanded Rice Credit Assistance under the Rice Competitiveness Enhancement Fund -Individualrice farmers and their cooperatives
12. Special Credit Program under the Sugarcane Industry Development Act (SCP-SIDA) - Individual Farmers -Cooperatives
Sulong Saka Financing Program
A lending window to provide credit assistance to various qualified stakeholders to support their productions, processing,marketing of high-value crops such as banana, cassava, coffee, oil palm, rubber, vegetables, among others
How to avail of these theseLending Program:
1. Endorsement of potential borrower by partneragencies, if applicable
2. Submission of Loan application and other documentary requirements to LendingUnit/Center
3. Loan processing/approval(by appropriate LBP Loan Approving Group)
4. Attendance to Basic Financial Literacy and Loan Orientation Seminar, if applicable
5. Opening of deposit account to nearest LBP Branch (for crediting of loan proceeds)
1 2 3 4 5 6 7 8 9 10 11 12
BACK


Expenses
THIS WILL HELP YOU TO KNOW THE POSSIBLE PRODUCTION COST IN EACH CROPS
PLEASE CHOOSE IN THE FOLLOWING:
BANANA
MANGO
COCONUT
PALAY
CAMOTE
PINEAPPLE
CASSAVA
POTATO
CORN
SUGARCANE
BACK
CALCULATOR
Possible production cost in palay crops in one hectare:
Power tiller cost = Php 19,500
Labor cost = Php 10,050
Seed cost = Php 2,078
Fertilizer cost = Php 5,046
Manure cost = Php 3,113.49
Insecticides = Php 2,113.88
Irrigation charge = Php 4,456
Capital cost = Php 3,785
Land rental cost Php 15,653
Total cost = Php 67,795.37


Calculation
THIS WILL HELP YOU TO COMPUTE THE EXPENSES OF THE QUANTITY THAT YOU WANT
Enter the quantity: 2
UREA (PRILLED)
UREA (GRANULAR)
AMMOSUL
COMPLETE
AMMOPHOS
MOP
DAP
DITHANE
MANCOZEB
FUNGURAN
CYPERMETHRIN
DECIS
MALATHION
CLEAR OUT
ROUND UP
Total: 2905.74
BACK
Prices for every item
Fertilizers (50kg):
Urea(Prilled) = Php 1,761.47
Urea(Granular) = Php 1,759.84
Ammosul = Php 875.14
Complete = Php 1,452.87
Ammophos = Php 1,341.45
MOP Php = 1,471.66
DAP Php = 1,984.46
Pesticide(per kg or liter):
Dithane Php = 464.17
Mancozeb = Php 426.21
Funguran = Php 704.72
Cypermethrin = Php 320
Decis = Php 1,108.33
Malathion = Php 311.67
Clear out = Php 460.83
Round up = Php 500