**JAVA ASSIGNMENT – PRODUCT BILLING**

**NAME :** Kevin Menezes

**ROLL NO. : CS1920647**

**CODE:**

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

public class GroceryBilling extends Applet implements ActionListener

{

float quant,sum,rate1=150,rate2=40,rate3=140,rate4=60,stock1=30,stock2=20,stock3=20,stock4=30,bill1=0,bill2=0,bill3=0,bill4=0,d1=0,d2=0,d3=0,d4=0;

float dbill1=0,dbill2=0,dbill3=0,dbill4=0,dsum,c1=0,c2=0,c3=0,c4=0,csum;

float cp1=100,cp2=25,cp3=100,cp4=30,profit1=0,profit2=0,profit3=0,profit4=0,psum,dayprofit=0,daycommission=0;

float q1=0,q2=0,q3=0,q4=0,gst=0,finalsum=0;

//---------------------------------------------------------------------LABELS----------------------------------------------------------------------------------------------------------

Label gb = new Label("-----------------------------------GROCERY BILL-----------------------------------");

Label pass = new Label(" Password : ");

Label title1 = new Label(" ITEMS");

Label l1 = new Label(" BASMATI RICE");

Label l2 = new Label(" SUGAR");

Label l3 = new Label(" TOOR DAL");

Label l4 = new Label(" ATTA");

Label title2 = new Label(" COST/KG");

Label title3 = new Label(" AVAILABILITY");

Label title4 = new Label(" QUANTITY");

Label title6 = new Label(" DISCOUNT");

Label title5 = new Label(" TOTAL");

Label title8 = new Label("COST PRICE");

Label title9 = new Label("PROFIT");

Label title7 = new Label("COMMISSION");

Label msg = new Label("WELCOME!");

Label msg1 = new Label();

Label msg2 = new Label();

Label msg3 = new Label();

Label msg4 = new Label();

//------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

//---------------------------------------------------------------------TEXTFIELD----------------------------------------------------------------------------------------------------------

TextField p = new TextField();

TextField rt1 = new TextField("150",5);

TextField rt2 = new TextField("40",5);

TextField rt3 = new TextField("140",5);

TextField rt4 = new TextField("60",5);

TextField avat1 = new TextField("30",5);

TextField avat2 = new TextField("20",5);

TextField avat3 = new TextField("20",5);

TextField avat4 = new TextField("30",5);

TextField t1 = new TextField(5);

TextField t3 = new TextField(5);

TextField t5 = new TextField(5);

TextField t7 = new TextField(5);

TextField dis1 = new TextField(5);

TextField dis2 = new TextField(5);

TextField dis3 = new TextField(5);

TextField dis4 = new TextField(5);

TextField t2 = new TextField(8);

TextField t4 = new TextField(8);

TextField t6 = new TextField(8);

TextField t8 = new TextField(8);

TextField com1 = new TextField(8);

TextField com2 = new TextField(8);

TextField com3 = new TextField(8);

TextField com4 = new TextField(8);

TextField cop1 = new TextField("100",5);

TextField cop2 = new TextField("25",5);

TextField cop3 = new TextField("100",5);

TextField cop4 = new TextField("30",5);

TextField prof1 = new TextField(8);

TextField prof2 = new TextField(8);

TextField prof3 = new TextField(8);

TextField prof4 = new TextField(8);

//------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

//---------------------------------------------------------------------BUTTONS----------------------------------------------------------------------------------------------------------

Button b1 = new Button("+CART");

Button b2 = new Button("+CART");

Button b3 = new Button("+CART");

Button b4 = new Button("+CART");

Button upda = new Button("UPDATE");

Button total = new Button("GRAND TOTAL");

Button proc = new Button("PROCEED");

Button next = new Button("NEXT CUSTOMER");

//------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

//---------------------------------------------------------------------COLORS----------------------------------------------------------------------------------------------------------

Color steelblue = new Color(70,130,180);

Color darkcyan = new Color(0,139,139);

Color powderblue = new Color(176,224,230);

Color dsg = new Color(65,105,225);

Color lavender = new Color(230,230,250);

//------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

//---------------------------------------------------------------------FONTS----------------------------------------------------------------------------------------------------------

Font font1 = new Font("Times New Roman",Font.BOLD,50);

Font font2 = new Font("Arial",Font.BOLD,20);

Font font3 = new Font("Times New Roman",Font.BOLD,25);

Font font4 = new Font("Times New Roman",Font.ITALIC,25);

Font font5 = new Font("Times New Roman",Font.BOLD,40);

Font font6 = new Font("Arial",Font.BOLD,16);

//------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

//---------------------------------------------------------------------FUNCTIONS----------------------------------------------------------------------------------------------------------

public void init()

{

setLayout(null);

// ---GROCERY BILL----

add(gb);

gb.setBounds(9,29,1583,90);

gb.setBackground(steelblue);

gb.setFont(font1);

// PASSWORD

add(pass);

pass.setBounds(520,170,140,40);

pass.setBackground(darkcyan);

pass.setFont(font2);

add(p);

p.setBounds(680,170,400,40);

p.setBackground(darkcyan);

p.setFont(font2);

p.setEchoChar('\*');

// FIRST ROW--------------------------------------------------------------------------------------------------------

add(title1);

title1.setBounds(30,250,200,50);

title1.setBackground(steelblue);

title1.setFont(font3);

add(title2);

title2.setBounds(250,250,130,50);

title2.setBackground(steelblue);

title2.setFont(font3);

add(title3);

title3.setBounds(400,250,190,50);

title3.setBackground(steelblue);

title3.setFont(font3);

add(title4);

title4.setBounds(610,250,150,50);

title4.setBackground(steelblue);

title4.setFont(font3);

add(title6);

title6.setBounds(780,250,150,50);

title6.setBackground(steelblue);

title6.setFont(font3);

add(title5);

title5.setBounds(950,250,130,50);

title5.setBackground(steelblue);

title5.setFont(font3);

add(title8);

title8.setBounds(1220,250,110,50);

title8.setBackground(Color.black);

title8.setForeground(Color.white);

title8.setFont(font6);

add(title9);

title9.setBounds(1350,250,80,50);

title9.setBackground(Color.black);

title9.setForeground(Color.white);

title9.setFont(font2);

add(title7);

title7.setBounds(1450,250,135,50);

title7.setBackground(Color.black);

title7.setForeground(Color.white);

title7.setFont(font2);

// SECOND ROW--------------------------------------------------------------------------------------------------------

add(l1);

l1.setBounds(30,320,200,30);

l1.setBackground(steelblue);

l1.setFont(font4);

add(rt1);

rt1.setBounds(250,320,130,30);

rt1.setBackground(powderblue);

rt1.setFont(font2);

rt1.setEditable(false);

add(avat1);

avat1.setBounds(400,320,190,30);

avat1.setBackground(powderblue);

avat1.setFont(font2);

avat1.setEditable(false);

add(t1);

t1.setBounds(610,320,150,30);

t1.setBackground(powderblue);

t1.setFont(font2);

add(dis1);

dis1.setBounds(780,320,150,30);

dis1.setBackground(powderblue);

dis1.setFont(font2);

dis1.setEditable(false);

add(t2);

t2.setBounds(950,320,130,30);

t2.setBackground(powderblue);

t2.setFont(font2);

add(b1);

b1.setBounds(1100,320,80,30);

b1.setBackground(steelblue);

b1.setFont(font2);

add(cop1);

cop1.setBounds(1235,320,80,30);

cop1.setBackground(darkcyan);

cop1.setFont(font2);

cop1.setEditable(false);

cop1.setVisible(false);

add(prof1);

prof1.setBounds(1350,320,80,30);

prof1.setBackground(darkcyan);

prof1.setFont(font2);

prof1.setEditable(false);

prof1.setVisible(false);

add(com1);

com1.setBounds(1450,320,135,30);

com1.setBackground(darkcyan);

com1.setFont(font2);

com1.setEditable(false);

com1.setVisible(false);

// THIRD ROW--------------------------------------------------------------------------------------------------------

add(l2);

l2.setBounds(30,370,200,30);

l2.setBackground(steelblue);

l2.setFont(font4);

add(rt2);

rt2.setBounds(250,370,130,30);

rt2.setBackground(powderblue);

rt2.setFont(font2);

rt2.setEditable(false);

add(avat2);

avat2.setBounds(400,370,190,30);

avat2.setBackground(powderblue);

avat2.setFont(font2);

avat2.setEditable(false);

add(t3);

t3.setBounds(610,370,150,30);

t3.setBackground(powderblue);

t3.setFont(font2);

add(dis2);

dis2.setBounds(780,370,150,30);

dis2.setBackground(powderblue);

dis2.setFont(font2);

dis2.setEditable(false);

add(t4);

t4.setBounds(950,370,130,30);

t4.setBackground(powderblue);

t4.setFont(font2);

add(b2);

b2.setBounds(1100,370,80,30);

b2.setBackground(steelblue);

b2.setFont(font2);

add(cop2);

cop2.setBounds(1235,370,80,30);

cop2.setBackground(darkcyan);

cop2.setFont(font2);

cop2.setEditable(false);

cop2.setVisible(false);

add(prof2);

prof2.setBounds(1350,370,80,30);

prof2.setBackground(darkcyan);

prof2.setFont(font2);

prof2.setEditable(false);

prof2.setVisible(false);

add(com2);

com2.setBounds(1450,370,135,30);

com2.setBackground(darkcyan);

com2.setFont(font2);

com2.setEditable(false);

com2.setVisible(false);

// FOURTH ROW--------------------------------------------------------------------------------------------------------

add(l3);

l3.setBounds(30,420,200,30);

l3.setBackground(steelblue);

l3.setFont(font4);

add(rt3);

rt3.setBounds(250,420,130,30);

rt3.setBackground(powderblue);

rt3.setFont(font2);

rt3.setEditable(false);

add(avat3);

avat3.setBounds(400,420,190,30);

avat3.setBackground(powderblue);

avat3.setFont(font2);

avat3.setEditable(false);

add(t5);

t5.setBounds(610,420,150,30);

t5.setBackground(powderblue);

t5.setFont(font2);

add(dis3);

dis3.setBounds(780,420,150,30);

dis3.setBackground(powderblue);

dis3.setFont(font2);

dis3.setEditable(false);

add(t6);

t6.setBounds(950,420,130,30);

t6.setBackground(powderblue);

t6.setFont(font2);

add(b3);

b3.setBounds(1100,420,80,30);

b3.setBackground(steelblue);

b3.setFont(font2);

add(cop3);

cop3.setBounds(1235,420,80,30);

cop3.setBackground(darkcyan);

cop3.setFont(font2);

cop3.setEditable(false);

cop3.setVisible(false);

add(prof3);

prof3.setBounds(1350,420,80,30);

prof3.setBackground(darkcyan);

prof3.setFont(font2);

prof3.setEditable(false);

prof3.setVisible(false);

add(com3);

com3.setBounds(1450,420,135,30);

com3.setBackground(darkcyan);

com3.setFont(font2);

com3.setEditable(false);

com3.setVisible(false);

// FIFTH ROW--------------------------------------------------------------------------------------------------------

add(l4);

l4.setBounds(30,470,200,30);

l4.setBackground(steelblue);

l4.setFont(font4);

add(rt4);

rt4.setBounds(250,470,130,30);

rt4.setBackground(powderblue);

rt4.setFont(font2);

rt4.setEditable(false);

add(avat4);

avat4.setBounds(400,470,190,30);

avat4.setBackground(powderblue);

avat4.setFont(font2);

avat4.setEditable(false);

add(t7);

t7.setBounds(610,470,150,30);

t7.setBackground(powderblue);

t7.setFont(font2);

add(dis4);

dis4.setBounds(780,470,150,30);

dis4.setBackground(powderblue);

dis4.setFont(font2);

dis4.setEditable(false);

add(t8);

t8.setBounds(950,470,130,30);

t8.setBackground(powderblue);

t8.setFont(font2);

add(b4);

b4.setBounds(1100,470,80,30);

b4.setBackground(steelblue);

b4.setFont(font2);

add(cop4);

cop4.setBounds(1235,470,80,30);

cop4.setBackground(darkcyan);

cop4.setFont(font2);

cop4.setEditable(false);

cop4.setVisible(false);

add(prof4);

prof4.setBounds(1350,470,80,30);

prof4.setBackground(darkcyan);

prof4.setFont(font2);

prof4.setEditable(false);

prof4.setVisible(false);

add(com4);

com4.setBounds(1450,470,135,30);

com4.setBackground(darkcyan);

com4.setFont(font2);

com4.setEditable(false);

com4.setVisible(false);

// DOWN BUTTONS----------------------------------------------------------------------------------------------------------

add(upda);

upda.setBounds(60,530,200,60);

upda.setBackground(Color.black);

upda.setForeground(Color.white);

upda.setFont(font5);

add(total);

total.setBounds(280,530,330,60);

total.setBackground(Color.black);

total.setForeground(Color.white);

total.setFont(font5);

add(proc);

proc.setBounds(630,530,230,60);

proc.setBackground(Color.black);

proc.setForeground(Color.white);

proc.setFont(font5);

add(next);

next.setBounds(880,530,370,60);

next.setBackground(Color.black);

next.setForeground(Color.white);

next.setFont(font5);

// MESSAGE LABELS------------------------------------------------------------------------------------------------------------

add(msg);

msg.setBounds(30,630,1553,30);

msg.setBackground(lavender);

msg.setFont(font4);

add(msg1);

msg1.setBounds(30,670,1553,30);

msg1.setBackground(lavender);

msg1.setFont(font4);

add(msg2);

msg2.setBounds(1360,520,220,30);

msg2.setBackground(lavender);

msg2.setFont(font2);

msg2.setVisible(false);

add(msg3);

msg3.setBounds(1360,570,200,30);

msg3.setBackground(lavender);

msg3.setFont(font2);

msg3.setVisible(false);

add(msg4);

msg4.setBounds(30,720,1553,30);

msg4.setBackground(lavender);

msg4.setFont(font2);

msg4.setVisible(false);

// ADDING ACTION LISTENER----------------------------------------------------------------------------------------------------------

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);

b4.addActionListener(this);

upda.addActionListener(this);

total.addActionListener(this);

proc.addActionListener(this);

next.addActionListener(this);

}

//----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

public void actionPerformed(ActionEvent ae)

{

String password = p.getText();

// ADMIN MODE-------------------------------------------------------------------------------------------

if(ae.getSource() == upda)

{

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

if((password).equals("nivek"))

{

cop1.setVisible(true);prof1.setVisible(true);com1.setVisible(true);

cop2.setVisible(true);prof2.setVisible(true);com2.setVisible(true);

cop3.setVisible(true);prof3.setVisible(true);com3.setVisible(true);

cop4.setVisible(true);prof4.setVisible(true);com4.setVisible(true);

msg2.setVisible(true);msg3.setVisible(true);msg4.setVisible(true);

msg.setText("ADMIN MODE!! RATES, AVAILABILITY, DISCOUNT AND COST PRICE CAN BE UPDATED!!");

float x1,x2,x3,x4;

String y1,y2,y3,y4;

float j1,j2,j3,j4;

String k1,k2,k3,k4;

float m1,m2,m3,m4;

String n1,n2,n3,n4;

float a1,a2,a3,a4;

String b1,b2,b3,b4;

cop1.setEditable(true);cop2.setEditable(true);cop2.setEditable(true);cop2.setEditable(true); //CHANGING COST PRICE

// CHANGING RATES-------------------------------------------------------------------------------

rt1.setEditable(true);

y1 = rt1.getText();

x1 = Float.parseFloat(y1);

rate1=x1;

rt2.setEditable(true);

y2 = rt2.getText();

x2 = Float.parseFloat(y2);

rate2=x2;

rt3.setEditable(true);

y3 = rt3.getText();

x3 = Float.parseFloat(y3);

rate3=x3;

rt4.setEditable(true);

y4 = rt4.getText();

x4 = Float.parseFloat(y4);

rate4=x4;

// CHANGING AVAILABILITY-------------------------------------------------------------------------------

avat1.setEditable(true);

k1 = avat1.getText();

j1 = Float.parseFloat(k1);

stock1=j1;

avat2.setEditable(true);

k2 = avat2.getText();

j2 = Float.parseFloat(k2);

stock2=j2;

avat3.setEditable(true);

k3 = avat3.getText();

j3 = Float.parseFloat(k3);

stock3=j3;

avat4.setEditable(true);

k4 = avat4.getText();

j4 = Float.parseFloat(k4);

stock4=j4;

// CHANGING DISCOUNT-----------------------------------------------------------------------------------------

dis1.setEditable(true);dis2.setEditable(true);dis3.setEditable(true);dis4.setEditable(true);

n1= dis1.getText();

m1=Float.parseFloat(n1);

d1=m1;

n2= dis2.getText();

m2=Float.parseFloat(n2);

d2=m2;

n3= dis3.getText();

m3=Float.parseFloat(n3);

d3=m3;

n4= dis4.getText();

m4=Float.parseFloat(n4);

d4=m4;

// CHANGING COST PRICE-----------------------------------------------------------------------------------------

b1=cop1.getText();

a1=Float.parseFloat(b1);

cp1=a1;

b2=cop2.getText();

a2=Float.parseFloat(b2);

cp2=a2;

b3=cop3.getText();

a3=Float.parseFloat(b3);

cp3=a3;

b4=cop4.getText();

a4=Float.parseFloat(b4);

cp4=a4;

}

else

{

msg.setText("USER CANNOT UPDATE!! ENTER CORRECT PASSWORD OR CONTACT ADMIN!!");

msg2.setText("");

msg3.setText("");

msg4.setText("");

}

rt1.setText(Float.toString(rate1));

rt2.setText(Float.toString(rate2));

rt3.setText(Float.toString(rate3));

rt4.setText(Float.toString(rate4));

avat1.setText(Float.toString(stock1));

avat2.setText(Float.toString(stock2));

avat3.setText(Float.toString(stock3));

avat4.setText(Float.toString(stock4));

dis1.setText(Float.toString(d1));

dis2.setText(Float.toString(d2));

dis3.setText(Float.toString(d3));

dis4.setText(Float.toString(d4));

cop1.setText(Float.toString(cp1));

cop2.setText(Float.toString(cp2));

cop3.setText(Float.toString(cp3));

cop4.setText(Float.toString(cp4));

}

// GRAND TOTAL-----------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource()==total)

{

sum = bill1+bill2+bill3+bill4;

dsum = dbill1+dbill2+dbill3+dbill4;

csum = c1+c2+c3+c4;

psum = profit1+profit2+profit3+profit4;

dayprofit=dayprofit+psum;

daycommission=daycommission+csum;

msg.setText("MRP AMOUNT = "+sum+" rupees");

msg1.setText("GRAND TOTAL AFTER DISCOUNT = "+dsum+" rupees");

msg2.setText("TOTAL COMMISSION");

msg3.setText(" "+csum+" rupees");

msg4.setText("PROFIT = "+psum+" rupees TOTAL PROFIT EARNED IN THE DAY = "+dayprofit+" rupees TOTAL COMMISSION GIVEN IN THE DAY = "+daycommission+" rupees");

}

// PROCEED----------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource() == proc)

{

t1.setText("");t2.setText("");t3.setText("");t4.setText("");

t5.setText("");t6.setText("");t7.setText("");t8.setText("");

com1.setText("");com2.setText("");com3.setText("");com4.setText("");

prof1.setText("");prof2.setText("");prof3.setText("");prof4.setText("");

sum = bill1+bill2+bill3+bill4;

dsum = dbill1+dbill2+dbill3+dbill4;

gst= (dsum\*5)/100;

finalsum=gst+dsum;

msg.setText("PAYMENT OF "+finalsum+" rupees SUCCESSFUL! THANKS FOR SHOPPING!");

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

System.out.println(" ");

System.out.println(" ");

System.out.println(" KM STORES");

System.out.println("------------------------------------------------------------------------");

System.out.println(" ");

System.out.println(" ");

System.out.println(" ITEMS QTY RATE DISCOUNT% AMOUNT ");

System.out.println(" ");

System.out.println(" BASMATI RICE "+q1+" "+rate1+" "+d1+" "+dbill1);

System.out.println(" ");

System.out.println(" SUGAR "+q2+" "+rate2+" "+d2+" "+dbill2);

System.out.println(" ");

System.out.println(" TOOR DAL "+q3+" "+rate3+" "+d3+" "+dbill3);

System.out.println(" ");

System.out.println(" AATA "+q4+" "+rate4+" "+d4+" "+dbill4);

System.out.println(" ");

System.out.println(" ---------------------------------------------------------");

System.out.println(" ");

System.out.println(" SUB TOTAL : "+dsum);

System.out.println(" G.S.T @5% : "+gst);

System.out.println(" ---------------------------------------------------------");

System.out.println(" ");

System.out.println(" FINAL TOTAL : "+finalsum);

System.out.println(" ");

System.out.println("------------------------------------------------------------------------");

System.out.println(" THANK YOU! VISIT AGAIN!");

}

// NEXT CUSTOMER----------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource() == next)

{

t1.setText("");t2.setText("");t3.setText("");t4.setText("");

t5.setText("");t6.setText("");t7.setText("");t8.setText("");p.setText("");

prof1.setText("");prof2.setText("");prof3.setText("");prof4.setText("");

com1.setText("");com2.setText("");com3.setText("");com4.setText("");

rt1.setEditable(false); // REMOVING EDITABILITY

rt2.setEditable(false);

rt3.setEditable(false);

rt4.setEditable(false);

avat1.setEditable(false);

avat2.setEditable(false);

avat3.setEditable(false);

avat4.setEditable(false);

dis1.setEditable(false);

dis2.setEditable(false);

dis3.setEditable(false);

dis4.setEditable(false);

cop1.setEditable(false);

cop2.setEditable(false);

cop3.setEditable(false);

cop4.setEditable(false);

cop1.setVisible(false);prof1.setVisible(false);com1.setVisible(false); //REMOVING VISIBILITY

cop2.setVisible(false);prof2.setVisible(false);com2.setVisible(false);

cop3.setVisible(false);prof3.setVisible(false);com3.setVisible(false);

cop4.setVisible(false);prof4.setVisible(false);com4.setVisible(false);

msg2.setVisible(false);msg3.setVisible(false);msg4.setVisible(false);

msg.setText("WELCOME! WHAT WOULD U LIKE TO PURCHASE!");

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

}

// ADD TO CART----------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource()==b1) //when b1 buttonn is pressed

{

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

String s1 = t1.getText(); //taking the quantity of product from user

quant = Float.parseFloat(s1); //converting the string to Float

q1=quant;

if(quant<1) //not allowing negative no.

{

msg.setText("QUANTITY CANNOT BE NULL OR A NEGATIVE NUMBER");

t1.setText("");

t2.setText("");

}

else

{

if((stock1-quant)<0) //checking if the stock is greater than the quantity

{

msg.setText("THIS MUCH STOCK OF RICE NOT AVAILABLE. RE-ENTER QUANTITY ACCORDING TO THE AVAILABILITY!");

quant = 0;

t1.setText(Float.toString(quant)); //converting Float to string

}

else

{

msg.setText(" ");

stock1=stock1-quant;

avat1.setText(Float.toString(stock1));

msg.setText("STOCK OF BASMATI RICE IS AVAILABLE!");

}

bill1 = quant\*rate1; //quantity of product multiply its rate

//------------------------------------------------------------------------------------------------------------------

dbill1 = bill1-((bill1\*d1)/100); //discount

t2.setText(Float.toString(dbill1));

//-------------------------------------------------------------------------------------------------------------------

if(quant>0 && quant<=20) //commission

{

c1 = (dbill1\*5)/100;

com1.setText(Float.toString(c1));

}

else if(quant>20 && quant<=40)

{

c1 = (dbill1\*10)/100;

com1.setText(Float.toString(c1));

}

else if(quant>40 && quant<=60)

{

c1 = (dbill1\*15)/100;

com1.setText(Float.toString(c1));

}

else

{

c1 = (dbill1\*30)/100;

com1.setText(Float.toString(c1));

}

//-----------------------------------------------------------------------------------------

profit1= dbill1-cp1\*quant-c1; //profit

prof1.setText(Float.toString(profit1));

}

}

//-------------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource()==b2)

{

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

String s2 = t3.getText(); //taking the quantity of product from user

quant = Float.parseFloat(s2); //converting the string to Float

q2=quant;

if(quant<1)

{

msg.setText("QUANTITY CANNOT BE NULL OR A NEGATIVE NUMBER");

t3.setText("");

t4.setText("");

}

else

{

if((stock2-quant)<0)

{

msg.setText("THIS MUCH STOCK OF SUGAR NOT AVAILABLE. RE-ENTER QUANTITY ACCORDING TO THE AVAILABILITY!");

quant = 0;

t3.setText(Float.toString(quant)); //converting Float to string

}

else

{

msg.setText(" ");

stock2=stock2-quant;

avat2.setText(Float.toString(stock2));

msg.setText("STOCK OF SUGAR IS AVAILABLE!");

}

bill2 = quant\*rate2; //quantity of product multiply its rate

//-------------------------------------------------------------------------------------------

dbill2 = bill2-((bill2\*d2)/100); //discount

t4.setText(Float.toString(dbill2));

//------------------------------------------------------------------------------------------

//-------------------------------------------------------------------------------------------------------------------

if(quant>0 && quant<=20) //commission

{

c2 = (dbill2\*5)/100;

com2.setText(Float.toString(c2));

}

else if(quant>20 && quant<=40)

{

c2 = (dbill2\*10)/100;

com2.setText(Float.toString(c2));

}

else if(quant>40 && quant<=60)

{

c2 = (dbill2\*15)/100;

com2.setText(Float.toString(c2));

}

else

{

c2 = (dbill2\*30)/100;

com2.setText(Float.toString(c2));

}

//-----------------------------------------------------------------------------------------------------------

profit2= dbill2-cp2\*quant-c2; //profit

prof2.setText(Float.toString(profit2));

}

}

//-------------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource()==b3)

{

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

String s3 = t5.getText(); //taking the quantity of product from user

quant = Float.parseFloat(s3); //converting the string to Float

q3=quant;

if(quant<1)

{

msg.setText("QUANTITY CANNOT BE NULL OR A NEGATIVE NUMBER");

t5.setText("");

t6.setText("");

}

else

{

if((stock3-quant)<0)

{

msg.setText("THIS MUCH STOCK OF DAL NOT AVAILABLE. RE-ENTER QUANTITY ACCORDING TO THE AVAILABILITY!");

quant = 0;

t5.setText(Float.toString(quant)); //converting Float to string

}

else

{

msg.setText(" ");

stock3=stock3-quant;

avat3.setText(Float.toString(stock3));

msg.setText("STOCK OF TOOR DAL IS AVAILABLE!");

}

bill3 = quant\*rate3; //quantity of product multiply its rate

//-----------------------------------------------------------------------------------------------------------------

dbill3 = bill3-((bill3\*d3)/100); //discount

t6.setText(Float.toString(dbill3));

//-------------------------------------------------------------------------------------------------------------------

if(quant>0 && quant<=20) //commission

{

c3 = (dbill3\*5)/100;

com3.setText(Float.toString(c3));

}

else if(quant>20 && quant<=40)

{

c3 = (dbill3\*10)/100;

com3.setText(Float.toString(c3));

}

else if(quant>40 && quant<=60)

{

c3 = (dbill3\*15)/100;

com3.setText(Float.toString(c3));

}

else

{

c3 = (dbill3\*30)/100;

com3.setText(Float.toString(c3));

}

//---------------------------------------------------------------------------------------------------------------------

profit3= dbill3-cp3\*quant-c3; //profit

prof3.setText(Float.toString(profit3));

}

}

//-------------------------------------------------------------------------------------------------------------------------------------------------------------------

if(ae.getSource()==b4)

{

msg1.setText("");

msg2.setText("");

msg3.setText("");

msg4.setText("");

String s4 = t7.getText(); //taking the quantity of product from user

quant = Float.parseFloat(s4); //converting the string to Float

q4=quant;

if(quant<1)

{

msg.setText("QUANTITY CANNOT BE NULL OR A NEGATIVE NUMBER");

t7.setText("");

t8.setText("");

}

else

{

if((stock4-quant)<0)

{

msg.setText("THIS MUCH STOCK OF ATTA NOT AVAILABLE. RE-ENTER QUANTITY ACCORDING TO THE AVAILABILITY!");

quant = 0;

t7.setText(Float.toString(quant)); //converting Float to string

}

else

{

msg.setText(" ");

stock4=stock4-quant;

avat4.setText(Float.toString(stock4));

msg.setText("STOCK OF ATTA IS AVAILABLE!");

}

bill4 = quant\*rate4; //quantity of product multiply its rate

//--------------------------------------------------------------------------

dbill4 = bill4-((bill4\*d4)/100); //discount

t8.setText(Float.toString(dbill4));

//-------------------------------------------------------------------------------------------------------------------

if(quant>0 && quant<=20) //commission

{

c4 = (dbill4\*5)/100;

com4.setText(Float.toString(c4));

}

else if(quant>20 && quant<=40)

{

c4 = (dbill4\*10)/100;

com4.setText(Float.toString(c4));

}

else if(quant>40 && quant<=60)

{

c4 = (dbill4\*15)/100;

com4.setText(Float.toString(c4));

}

else

{

c4 = (dbill4\*30)/100;

com4.setText(Float.toString(c4));

}

//------------------------------------------------------------------------------------------------------------------------

profit4= dbill4-cp4\*quant-c4; //profit

prof4.setText(Float.toString(profit4));

}

}

}

// OUTER RECTANGLE

public void paint(Graphics g)

{

setForeground(lavender);

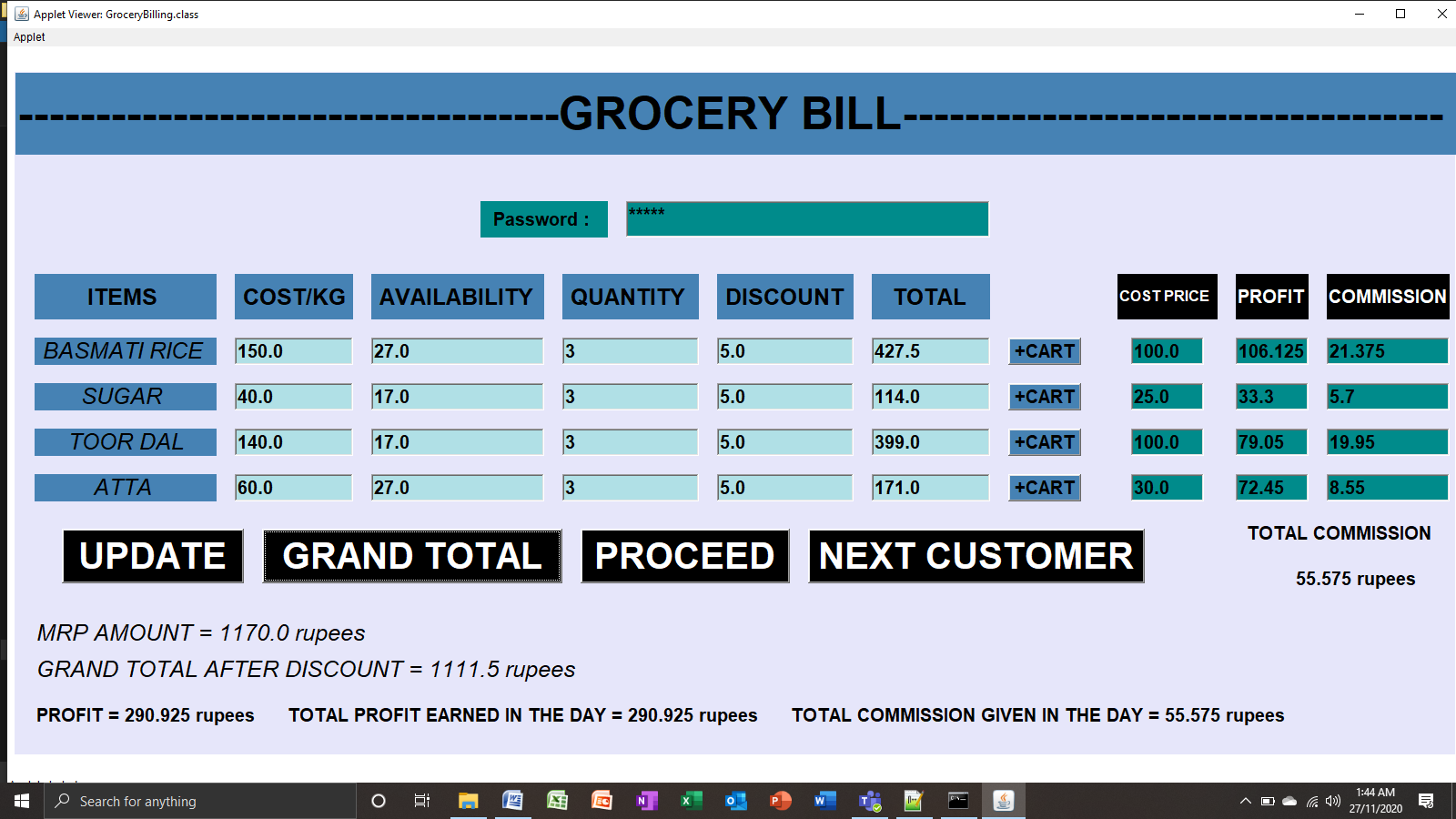
g.fillRect(8,28,1583,750);

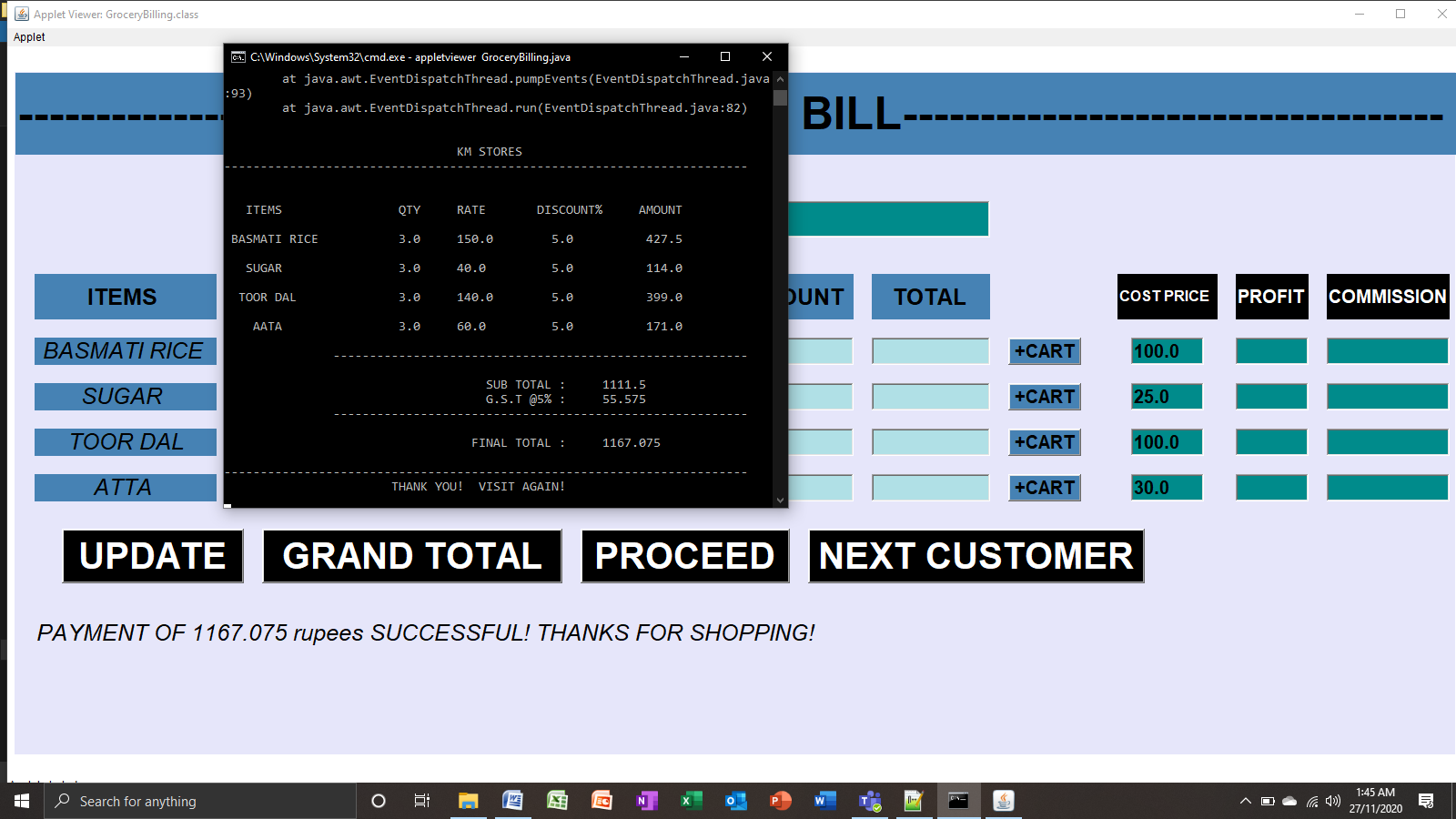
}

}

// <APPLET code="GroceryBilling.class" width="1600" height="800"></APPLET>

**OUTPUT:**

****

****