```
Java code
                                                                           Assignment operator: "="
class class name
                                                                           Binary operator: "+ - * / %"
                                                                           Unary operator: "+ - ++ --"
  public static void main(String[] args)
                                                                           Boolean not operator: "!"
                                                                           Boolean binary: "== != > >= < <="
       //code goes here
                                                                           Boolean binary only: && ||
                                                                           Bitwise operator:~ & ^ | << >> >>>
Naming conventions
                                                                           Ternary operators: bool true false
                                                                           None-Primitive type
Output
                                                                          String, Array, Class, Interface Widening(implicit) casting Smaller to larger type
class tt
{
          public static void main(String[] args)
                                                                           int myint = 9:
                                                                           double mydouble = myint;
              String a = "Hello world";
                                                                           System.out.println(mydouble); //9.0
              System.out.println(a);
                                                                           System.out.println(myint); //9
                                                                           Narrowing(explicit) casting
                                                                           Larger to smaller
                                                                           double mydouble = 9.7;
import java.util.Scanner;
                                                                           int myint = (int) mydouble;
                                                                           System.out.println(mydouble); //9.7
class tt
                                                                           System.out.println(myint); //9
          public static void main(String[] args)
                                                                          int x = Integer.parseInt("999");
                                                                           float y = Float.parseFloat("9.9");
              Scanner sc = new Scanner(System.in);
                                                                           String abc = Integer.toString(12):
                                                                           String xyz = Float.toString(0.54);
              String input = sc.nextLine();
                                                                           import java.util.Scanner;
Scanner s = new Scanner(System.in);
              System.out.println(input);
                                                                           String username = s.nextLine();
                                                                           System.out.println(username);
//Single line comment
/*Multi line comment*/
                                                                          nextBoolean(), nextByte(), nextDouble(), nextFloat(),
                                                                          nextInt(), nextLong(), nextShort()
                                                                          if, else if, else statemer
if(condition){statements}
int a = 15;
double b = 15.0;
char c = 'D';
bool d = true;
                                                                           else if(condition){statement}
                                                                           else{statement}
string e = "Hi"
Variable scope
                                                                           For
                                                                           for(int i=0; i<10; i++)
Global variable
import java.util.Scanner;
                                                                               System.out.println(i)
public class tt
                                                                           While loop
          String a = "Hello world";
                                                                          int i=0:
          public static void main(String[] args)
                                                                           while(i<10)
             tt obj = new tt();
                                                                               System.out.println(i);
             System.out.println(obj.a);
                                                                          Do while loop
}
                                                                          int i=0;
Global variable
                                                                          do
import java.util.Scanner;
                                                                           {
public class tt
                                                                               System.out.println(i);
          String a = "Hello world";
          public static void myfun()
                                                                           while(i<10);
                                                                           Switch state
             tt obj = new tt();
                                                                          int x = 3:
             System.out.println(obj.a);
                                                                           switch (x)
          public static void main(String[] args)
                                                                               case 1:
                                                                                System.out.println("A");
             myfun();
                                                                                breake;
}
                                                                               case 2:
                                                                                System.out.println("B");
Local variable
                                                                                breake;
import java.util.Scanner;
class tt
                                                                               case 3:
                                                                                System.out.println("C");
          public static void myfun()
                                                                                breake;
             String a = "Hello world";
                                                                               default:
             System.out.println(a);
                                                                                System.out.println("D")
                                                                           }
          public static void main(String[] args)
                                                                           int [] x = new int [10]; //ten 0s
                                                                           int [][] x = new int [5][5];
             myfun();
                                                                           //5 by 5 matrix
                                                                           int [] x = \{1,2,3,4,5\};
                                                                           x.length; // 5
final variable_type constant_name = constant_value
                                                                           int [][] x = \{1,2\},\{3,4,5,\};
final float pi =3.14;
                                                                           //ragged array
                                                                           String [] y = new String [10]; //ten nulls
Data types (primitive)
INTEGER: byte(8bit), short(16bit), int(32bit), long(64bit)
DECIMAL: float(32bit), double(64bit) OTHER: boolean(1bit),
char(unicode)
```

Java Cheat Sheet - DoubleDAmarasinghe @ github

```
Set JTable nul
                                                                       model.setRowCount(0);
Static declarations
public static int myFun(){smt}
                                                                        Table attributes
private static double myFun(){smt}
                                                                        jt.setLocation(370,110);
static void myFun(){smt}
                                                                        jt.setSize(720,300);
                                                                        jt.setBorder(brdjt);
                                                                        jt.setModel(model);
Instance declarations
public void myFun(){smt}
                                                                        jt.setFont(itempanelfont);
private int myFun(){smt}
                                                                        Model attributes (Methods
                                                                        model.addColumn("A");
                                                                        model.addColumn("B");
model.addColumn("C");
public static void main(String[] args)
                                                                        model.addColumn("D");
Button attributes (Methods
    myFun();
<u>Cl</u>ass
                                                                        delete.setSize(200,30);
Class Myclass;
                                                                        delete.setLocation(25,135);
                                                                        delete.setBorder(brd);
public class Myclass
                                                                        delete.setFont(itempanelfont);
                                                                        delete.addActionListener(new ActionListener()
    Int x = 5;
                                                                            {
                                                                               public void actionPerformed(ActionEvent arg0)
                                                                                { jtx.setText(null);
    Public static void main(String[] args)
                                                                                  jtxitem.requestFocus();
                                                                                }
     Myclass myobj = new Myclass()
     System.out.println(myobj.x);
                                                                       Set shortcut key for button reset.setMnemonic('z');
Imports in GUI
                                                                        Text field attributes
java.awt.Color;
                                                                        jtxitem.setSize(200,30);
java.awt.Font;
                                                                        jtxitem.setLocation(120,135);
java.awt.event.ActionEvent;
                                                                        jtxitem.setBorder(brd);
java.awt.event.ActionListener;
                                                                        jtxitem.setFont(itempanelfont);
java.awt.event.KeyEvent;
                                                                        jtxitem.addKeyListener(new KeyListener()
java.awt.event.KeyListener;
java.sql.*;
                                                                            @Override
                                                                            public void keyPressed(KeyEvent evt)
javax.swing.BorderFactory;
javax.swing.border.Border;
                                                                                  int a = evt.getKeyCode();
                                                                                  if (a==10) //enter key
javax.swing.*;
javax.swing.table.DefaultTableModel;
                                                                                    {
Java inheritance
                                                                                     jtxqty.requestFocus();
public class Window extends JFrame{}
 Creating objects
                                                                                  int b = evt.getKeyCode();
JFrame f1 = new JFrame();
                                                                                   if (b==KeyEvent.VK_SPACE) //space key
JPanel p1 = new JPanel()
JButton b1 = new JButton("Exit");
                                                                                     jtxpay.requestFocus();
JLabel 11 = new JLabel("Name");
JTextArea t1 = new JTextArea();
                                                                              }
JTextField tf1 = new JTextField();
JRadioButton r1 = new JRadioButton("Male");
                                                                            @Override
                                                                            public void keyReleased(KeyEvent arg0) {}
JComboBox c1 = new ComboBox("Maried");
DefaultTableModel model = new DefaultTableModel();
                                                                            @Override
JTable jt = new JTable(model);
                                                                            public void keyTyped(KeyEvent arg0) {}
                                                                        });
Font f1= new Font("Arial", Font.BOLD, 36);
                                                                            rt data from sql database
                                                                        jtxitem.addActionListener(new ActionListener()
Border b1 = BorderFactory.createLineBorder(Color.black, 2);
                                                                            public void actionPerformed(ActionEvent e)
Color clr = new Color(0,255,0);
                                                                              {
                                                                                try
JMenuBar jmb = new JMenuBar();
                                                                                   Class.forName("com.mysql.jdbc.Driver");
JMenu jm = new JMenu("File"):
JMenuItem jmi1 = new JMenuItem("Exit");
                                                                                  Connection conn
                                                                        DriverManager.getConnection("jdbc:mysql://localhost/doubled",
JOptionPane jp = new JOptionPane();
                                                                         'rona", "rona");
Call a Function/Met
                                                                                  Statement s=conn.createStatement();
public ItemSeller(){}
                                                                                  String sql = "select*from user where
                                                                        code="+jtxitem.getText()+"";
 Frame attributes
frame1.setSize(1360,720);
                                                                                  PreparedStatement ps = conn.prepareStatement(sql);
frame1.setTitle("Item_Seller");
                                                                                  ResultSet rs = ps.executeQuery();
frame1.setLayout(null);
                                                                                  while(rs.next())
frame1.setLocationRelativeTo(null);
                                                                        //shows item name in item namelabel
frame1.setVisible(true);
frame1.setDefaultCloseOperation(EXIT_ON_CLOSE);
                                                                        itemname.setText(rs.getString(1));
                                                                        //shows item price in itemprice label
itemprice.setText("Rs."+rs.getString(5));
frame1.setResizable(false);
Panel attributes (Methods
mainpanel.setSize(1360,720);
mainpanel.setLayout(null);
mainpanel.setVisible(true);
                                                                                 catch(Exception e1)
mainpanel.setBackground(new Color(25,130,146));
Label attributes (Methods)
                                                                                     System.out.println(e1.getMessage());
ammount.setLocation(365,425);
ammount.setSize(600,100);
ammount.setFont(amunt);
                                                                         } );
ammount.setForeground(Color.white);
Text area attributes (Methods)
jtxitem.setSize(200,30);
jtxitem.setLocation(120,135);
itxitem.setBorder(brd):
jtxitem.setFont(itempanelfont);
```

Java Cheat Sheet - DoubleDAmarasinghe @ github

```
jmi1.addActionListener(new ActionListener()
  public void actionPerformed(ActionEvent arg0)
          System.exit(0);
                                                                       }}
});
Export data to sql database
jbtadd.addActionListener(new ActionListener()
  public void actionPerformed(ActionEvent e)
     try
          Class.forName("com.mysql.jdbc.Driver");
          Connection conn
DriverManager.getConnection("jdbc:mysql://localhost/","rona",
          Statement s=conn.createStatement();
          s.execute("create database doubled;");
         s.execute("use doubled;");
s.execute("create table user(name varchar(25), code
varchar(10), q varchar(100), cost decimal(10), price decimal(10),
edate varchar(100), pdate varchar(100), sup varchar(100), re
varchar(100));");
         PreparedStatement ps = conn.prepareStatement("insert into
user(name,code,q
,cost,price,edate,pdate,sup,re)values(?,?,?,?,?,?,?,?);");
         ps.setString(1,jtx1.getText());
          ps.setString(2,jtx2.getText());
          ps.setString(3,jtx3.getText());
          ps.setString(4,jtx4.getText());
          ps.setString(5,jtx5.getText());
          ps.setString(6,jtx6.getText());
          ps.setString(7,jtx7.getText());
          ps.setString(8,jtx8.getText());
          ps.setString(9,jtx9.getText());
          int x = ps.executeUpdate();
          if(x>0)
              System.out.println("Work Work");
          else
              System.out.println("Nooo");
            }
       catch(Exception e1)
              System.out.println(e1.getMessage());
         }
} );
Add components
itempanel.add(itemprice);
mainpanel.add(jt);
itempanel2.add(reset);
logopanel.add(companyname);
frame1.add(mainpanel);
frame1.setJMenuBar(jmb);
jmb.add(jm);
jm.add(jmi1);
Main method and creating object
public static void main(String[]args)
    ItemSeller obj = new ItemSeller();
Optionpane massage
jp.showMessageDialog(frame1,"Item
Sold!","Alert",JOptionPane.INFORMATION_MESSAGE);
Add sql data into JTable
jtxqty.addActionListener(new ActionListener() {
  public void actionPerformed(ActionEvent e)
    {try
        Class.forName("com.mysql.jdbc.Driver");
        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/doubled",
 rona"
"rona");
        Statement s=conn.createStatement();
        String sql = "select*from user where
code="+jtxitem.getText()+"";
        PreparedStatement ps = conn.prepareStatement(sq1);
        ResultSet rs = ps.executeQuery();
while(rs.next())
          //get data from database
          String a = rs.getString(1);
         String b = rs.getString(2);
         Float itemprice1 = Float.parseFloat(rs.getString(5));
```

```
//get contains of jtxqty and convert into float
Float itemqtys = Float.parseFloat(jtxqty.getText());
String c = Float.toString(itemprice1*itemqtys);
String d = jtxqty.getText();
//adding data row from database to jtable
model.addRow(new Object[] {b,a,c,d});
catch(Exception e1)
System.out.println(e1.getMessage());
```