5-CARDS INTERFACE

```
PROGRAM -:
import java.awt.*;
import java.awt.event.*;
import java.io.*;
import javax.imageio.*;
import javax.swing.*;
import iava.util.*:
class ImageComponent extends JComponent
       Image i1,i2,i3,i4,i5,i6,i7,i8,i9,i10,i11,i12,i13;
       ArrayList al=new ArrayList();
       int[] player=new int[5];
       int[] opponent=new int[5];
       int[] deck=new int[42];
       int opencard, joker, playervalue, opponent value, opptotal=0, pltotal=0, round=0, reshuffle;
       String s1,s2,s3,s4,s5;
       int xposition, yposition, counter=0;
       int[] values=new int[52];
       String moves="";
       String[]
namestemp={"Aclubs","2clubs","3clubs","4clubs","5clubs","6clubs","7clubs","8clubs","9clubs","
10clubs", "Jclubs", "Qclubs", "Kclubs",
"Adice","2dice","3dice","4dice","5dice","6dice","7dice","8dice","9dice","10dice","Jdice","Qdice",
"Kdice",
"Ahearts", "2hearts", "3hearts", "4hearts", "5hearts", "6hearts", "7hearts", "8hearts", "9hearts", "10h
earts", "Jhearts", "Qhearts", "Khearts",
"Aspade","2spade","3spade","4spade","5spade","6spade","7spade","8spade","9spade","10spad
e","Jspade","Qspade","Kspade",};
       String[]
names={"Aclubs","2clubs","3clubs","4clubs","5clubs","6clubs","7clubs","8clubs","9clubs","10clu
bs","Jclubs","Qclubs","Kclubs",
"Adice", "2dice", "3dice", "4dice", "5dice", "6dice", "7dice", "8dice", "9dice", "10dice", "Jdice", "Qdice",
"Kdice",
"Ahearts", "2hearts", "3hearts", "4hearts", "5hearts", "6hearts", "7hearts", "8hearts", "9hearts", "10h
earts", "Jhearts", "Qhearts", "Khearts",
"Aspade","2spade","3spade","4spade","5spade","6spade","7spade","8spade","9spade","10spad
e","Jspade","Qspade","Kspade",};
       String[] shuffle=new String[52];
       protected void paintComponent(Graphics g)
       {
```

```
g.drawImage(i1,xposition,yposition,null);
       g.drawImage(i1,xposition+70,yposition,null);
       g.drawImage(i1,xposition+140,yposition,null);
       g.drawImage(i1,xposition+210,yposition,null);
       g.drawImage(i1,xposition+280,yposition,null);
       g.drawImage(i1,xposition+350,yposition,null);
       g.drawImage(i1,xposition+420,yposition,null);
       g.drawImage(i1,xposition+490,yposition,null);
       g.drawImage(i1,xposition,yposition+30,null);
       g.drawImage(i1,xposition+70,yposition+30,null);
       g.drawImage(i1,xposition+140,yposition+30,null);
       g.drawImage(i1,xposition+210,yposition+30,null);
       g.drawImage(i1,xposition+280,yposition+30,null);
       g.drawImage(i1,xposition+350,yposition+30,null);
       g.drawImage(i1,xposition+420,yposition+30,null);
       g.drawImage(i1,xposition+490,yposition+30,null);
       g.drawImage(i9,xposition+10,yposition,null);
       g.drawImage(i10,xposition+85,yposition,null);
       g.drawImage(i11,xposition+160,yposition,null);
       g.drawImage(i12,xposition+235,yposition,null);
       g.drawImage(i13,xposition+310,yposition,null);
       g.drawImage(i2,xposition+420,yposition,null);
}
String playerscore()
       return "Your Score: "+Integer.toString(playervalue);
void addup()
       counter++;
       moves+="\n\nMove "+Integer.toString(counter)+"\n======\n\n";
       moves+="Opponent: \n";
       for(int i=0;i<5;i++)
       moves+=(names[opponent[i]])+" "+Integer.toString(values[i+5])+"\n";
       moves+="\nOpponentValue = "+Integer.toString(opponentvalue);
       moves+="\n\nPlayer:\n";
       for(int i=0;i<5;i++)
       moves+=(names[player[i]])+" "+Integer.toString(values[i])+"\n";
       moves+="\nPlayerValue = "+Integer.toString(playervalue);
       moves+="\n\n";
boolean opponentbid()
{
       int i;
       i=(int)(Math.random()*100);
       if(opponentvalue==0)
```

```
SSN COLLEGE OF ENGINEERING
                                                                               Sheet no.....
                                       RECORD SHEET
              {
                     JOptionPane.showMessageDialog(this,"I'm Bidding\nMy Score:
"+opponentvalue);
                     checkwinner();
                     return true;
              }
              if(opponentvalue<=10)
                     if(i\%2==0)
                            JOptionPane.showMessageDialog(this,"I'm Bidding\nMy Score:
"+opponentvalue);
                            checkwinner();
                             return true;
                     }
              return false;
       }
       int opponentplay()
              try{
              int i,max,pos=0,count,ct,temp,count2;
              for(i=0;i<5;i++)
                     if(names[opponent[i]].equals("cardback"))
                             values[i+5]=0;
                     else if(names[opponent[i]].substring(0,1).equals("A"))
                            values[i+5]=1;
                     else if(names[opponent[i]].substring(0,1).equals("2"))
                            values[i+5]=2;
                     else if(names[opponent[i]].substring(0,1).equals("3"))
                            values[i+5]=3;
                     else if(names[opponent[i]].substring(0,1).equals("4"))
                             values[i+5]=4;
                     else if(names[opponent[i]].substring(0,1).equals("5"))
                             values[i+5]=5;
                     else if(names[opponent[i]].substring(0,1).equals("6"))
                            values[i+5]=6;
                     else if(names[opponent[i]].substring(0,1).equals("7"))
                            values[i+5]=7;
                     else if(names[opponent[i]].substring(0,1).equals("8"))
                            values[i+5]=8;
                     else if(names[opponent[i]].substring(0,1).equals("9"))
                             values[i+5]=9;
                     else if(names[opponent[i]].substring(0,1).equals("1"))
```

```
values[i+5]=10;
       else if(names[opponent[i]].substring(0,1).equals("J"))
               values[i+5]=10;
       else if(names[opponent[i]].substring(0,1).equals("Q"))
               values[i+5]=10;
       else if(names[opponent[i]].substring(0,1).equals("K"))
               values[i+5]=10;
}
for(i=0;i<5;i++)
       if(names[joker].substring(0,1).equals(names[opponent[i]].substring(0,1)))
               values[i+5]=0;
count=0;
boolean[] select=new boolean[5];
select[0]=false;
select[1]=false;
select[2]=false;
select[3]=false;
select[4]=false;
max=0;
ct=0;
for(i=5;i<10;i++)
       if(values[i]>=max)
               max=values[i];
               pos=i-5;
for(i=5;i<10;i++)
       if(values[i]==max)
               ct++;
}
if(ct>0)
for(i=5;i<10;i++)
       if(values[i]==max)
               select[i-5]=true;
}
if(max==10)
       count=0;
```

```
for(i=0;i<5;i++)
if(names[opponent[i]].substring(0,1).equals("1"))
       if(!names[joker].substring(0,1).equals("1"))
       for(int j=0;j<5;j++)
               if(names[opponent[j]].substring(0,1).equals("1"))
               else select[j]=false;
       count++;
for(i=0;i<5&&count==0;i++)
if(names[opponent[i]].substring(0,1).equals("J"))
       if(!names[joker].substring(0,1).equals("J"))
       for(int j=0;j<5;j++)
               if(names[opponent[j]].substring(0,1).equals("J"))
               else select[j]=false;
       count++;
for(i=0;i<5&&count==0;i++)
if(names[opponent[i]].substring(0,1).equals("K"))
       if(!names[joker].substring(0,1).equals("K"))
       for(int j=0;j<5;j++)
               if(names[opponent[j]].substring(0,1).equals("K"))
               else select[j]=false;
       count++;}
for(i=0;i<5\&\&count==0;i++)
if(names[opponent[i]].substring(0,1).equals("Q"))
       if(!names[joker].substring(0,1).equals("Q"))
       {
```

```
SSN COLLEGE OF ENGINEERING RECORD SHEET
```

```
for(int j=0;j<5;j++)
                      if(names[opponent[j]].substring(0,1).equals("Q"))
                      else select[i]=false;
              count++;}
       }
String jok=names[joker].substring(0,1);
for(i=5;i<10;i++)
       values[i]=opponent[i-5]%13;
       if(values[i]>9)
              values[i]=9;
       values[i]++;
}
for(i=5;i<10;i++)
       if(names[opponent[i-5]].substring(0,1).equals(jok))
              values[i]=0;
       if(names[opponent[i-5]].substring(0,1).equals("c"))
              values[i]=0;
if(values[10]>max | | values[10]==10)
       count=0;
       if(ct==0)
              if(select[0]==true)
                      temp=opponent[0];
                      opponent[0]=deck[0];
                      for(i=0;i<39;i++)
                             deck[i]=deck[i+1];
                      deck[39]=opencard;
                      opencard=temp;
              if(select[1]==true)
                      temp=opponent[1];
                      opponent[1]=deck[0];
                      for(i=0;i<39;i++)
                             deck[i]=deck[i+1];
                      deck[39]=opencard;
                      opencard=temp;
```

```
SSN COLLEGE OF ENGINEERING RECORD SHEET
```

```
if(select[2]==true)
              temp=opponent[2];
              opponent[2]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
      if(select[3]==true)
              temp=opponent[3];
              opponent[3]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
      if(select[4]==true)
       {
              temp=opponent[4];
              opponent[4]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
       }
else if(ct>=1)
       count2=0;
       if(select[0]==true)
              temp=opponent[0];
              opponent[0]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
              count2++;
      if(select[1]==true)
       {
              temp=opponent[1];
              opponent[1]=deck[0];
```

```
for(i=0;i<39;i++)
              deck[i]=deck[i+1];
       deck[39]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[1]]="cardback";
if(select[2]==true)
       temp=opponent[2];
       opponent[2]=deck[0];
       for(i=0;i<39;i++)
              deck[i]=deck[i+1];
       deck[39]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[2]]="cardback";
if(select[3]==true)
{
       temp=opponent[3];
       opponent[3]=deck[0];
       for(i=0;i<39;i++)
              deck[i]=deck[i+1];
       deck[39]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[3]]="cardback";
if(select[4]==true)
       temp=opponent[4];
       opponent[4]=deck[0];
       for(i=0;i<39;i++)
              deck[i]=deck[i+1];
       deck[39]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
```

```
SSN COLLEGE OF ENGINEERING RECORD SHEET
```

```
names[opponent[4]]="cardback";
              }
       i6=ImageIO.read(new File("Cards/"+names[opencard]+".png"));
}
else
{
       count=1;
       if(ct==0)
              if(select[0]==true)
                     temp=opponent[0];
                     opponent[0]=opencard;
                     opencard=temp;
             if(select[1]==true)
                     temp=opponent[1];
                     opponent[1]=opencard;
                     opencard=temp;
             if(select[2]==true)
              {
                     temp=opponent[2];
                     opponent[2]=opencard;
                     opencard=temp;
              if(select[3]==true)
                     temp=opponent[3];
                     opponent[3]=opencard;
                     opencard=temp;
              if(select[4]==true)
                     temp=opponent[4];
                     opponent[4]=opencard;
                     opencard=temp;
              }
       else if(ct>=1)
              count2=0;
              if(select[0]==true)
              {
```

Sheet no.....

```
temp=opponent[0];
       opponent[0]=opencard;
       opencard=temp;
       count2++;
}
if(select[1]==true)
       temp=opponent[1];
       opponent[1]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[1]]="cardback";
if(select[2]==true)
       temp=opponent[2];
       opponent[2]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[2]]="cardback";
if(select[3]==true)
       temp=opponent[3];
       opponent[3]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[3]]="cardback";
if(select[4]==true)
       temp=opponent[4];
       opponent[4]=opencard;
       opencard=temp;
       if(count2==0)
              count2++;
       else
              names[opponent[4]]="cardback";
}
```

}

```
i6=ImageIO.read(new File("Cards/"+names[opencard]+".png"));
repaint();
for(i=0;i<5;i++)
       if(names[opponent[i]].equals("cardback"))
              values[i+5]=0;
       else if(names[opponent[i]].substring(0,1).equals("A"))
              values[i+5]=1;
       else if(names[opponent[i]].substring(0,1).equals("2"))
              values[i+5]=2;
       else if(names[opponent[i]].substring(0,1).equals("3"))
              values[i+5]=3;
       else if(names[opponent[i]].substring(0,1).equals("4"))
              values[i+5]=4;
       else if(names[opponent[i]].substring(0,1).equals("5"))
              values[i+5]=5;
       else if(names[opponent[i]].substring(0,1).equals("6"))
              values[i+5]=6;
       else if(names[opponent[i]].substring(0,1).equals("7"))
              values[i+5]=7;
       else if(names[opponent[i]].substring(0,1).equals("8"))
              values[i+5]=8;
       else if(names[opponent[i]].substring(0,1).equals("9"))
              values[i+5]=9;
       else if(names[opponent[i]].substring(0,1).equals("1"))
              values[i+5]=10;
       else if(names[opponent[i]].substring(0,1).equals("J"))
              values[i+5]=10;
       else if(names[opponent[i]].substring(0,1).equals("Q"))
              values[i+5]=10;
       else if(names[opponent[i]].substring(0,1).equals("K"))
              values[i+5]=10;
for(i=0;i<5;i++)
       if(names[joker].substring(0,1).equals(names[opponent[i]].substring(0,1)))
              values[i+5]=0;
if(names[opponent[0]].substring(0,1).equals("c"))
       i9=ImageIO.read(new File("Cards/blankwhite.png"));
if(names[opponent[1]].substring(0,1).equals("c"))
       i10=ImageIO.read(new File("Cards/blankwhite.png"));
if(names[opponent[2]].substring(0,1).equals("c"))
       i11=ImageIO.read(new File("Cards/blankwhite.png"));
```

```
if(names[opponent[3]].substring(0,1).equals("c"))
              i12=ImageIO.read(new File("Cards/blankwhite.png"));
       if(names[opponent[4]].substring(0,1).equals("c"))
              i13=ImageIO.read(new File("Cards/blankwhite.png"));
       opponentvalue=0;
       for(i=0;i<5;i++)
              opponentvalue+=values[i+5];
       return count;
       catch(IOException ex)
              return -1;
       }
}
void checkwinner()
try
{
       int p,o;
       p=playervalue;
       o=opponentvalue;
       if(playervalue<opponentvalue)
              JOptionPane.showMessageDialog(this,"OK!! You WIN!! ^ ^");
              i2=ImageIO.read(new File("Cards/lost.png"));
              o=50;
       else if(playervalue==opponentvalue)
              JOptionPane.showMessageDialog(this,"Phew!! Thats a DRAW!! ^ ^");
       else
       {
              JOptionPane.showMessageDialog(this,"Woohoo!! You Lose ^ ^");
              i2=ImageIO.read(new File("Cards/win.png"));
              p=50;
       repaint();
       counter++;
       moves+="\n\nMove "+Integer.toString(counter)+"\n======\n\n";
       counter=0;
       moves+="Opponent: \n";
       for(int i=0;i<5;i++)
       moves+=(names[opponent[i]])+" "+Integer.toString(values[i+5])+"\n";
       moves+="\nOpponentValue = "+Integer.toString(opponentvalue);
       moves+="\n\nPlayer:\n";
       for(int i=0;i<5;i++)
```

```
moves+=(names[player[i]])+" "+Integer.toString(values[i])+"\n";
              moves+="\nPlayerValue = "+Integer.toString(playervalue);
              moves+="\n\n";
              round++;
              System.out.println("Round "+round+"\n======");
              System.out.println(moves);
              moves="";
              playervalue=p;
              opponentvalue=o;
              finalscores();
              reshuffle();
       catch(IOException e)
       }
       void finalscores()
       {
       try
              opptotal+=opponentvalue;
              pltotal+=playervalue;
              if(opptotal>150)
                     JOptionPane.showMessageDialog(this,"Your Total: "+pltotal+"\nMy Total
: "+opptotal+"\nSo, You WIN!! ^ ^");
                     i2=ImageIO.read(new File("Cards/lost.png"));
                     System.exit(0);
              else if(pltotal>150)
                     JOptionPane.showMessageDialog(this,"Your Total: "+pltotal+"\nMy Total
: "+opptotal+"\nSo, You LOSE!! ^_^");
                     i2=ImageIO.read(new File("Cards/win.png"));
                     System.exit(0);
              }
              else
                     JOptionPane.showMessageDialog(this,"Scores Now..\nYour Total:
"+pltotal+"\nMy Total: "+opptotal);
       catch(IOException e)
       {
       }
```

```
int exchangefromdeck(boolean flag1,boolean flag2,boolean flag3,boolean flag4,boolean
flag5)
       {
                      addup();
                      boolean mainflag=true;
                      int count,count2,i,cv,temp;
                      count=0;cv=0;
                      if(flag1==true)
                      {
                             count++;
                             cv=0;
                      if(flag2==true)
                             count++;
                             if(count>1)
                             {
       if(!names[player[1]].substring(0,1).equals(names[player[cv]].substring(0,1)))
                                            mainflag=false;
                             }
                             cv=1;
                      }
                      if(flag3==true)
                             count++;
                             if(count>1)
       if(names[player[2]].substring(0,1).equals(names[player[cv]].substring(0,1))){}
                                     else mainflag=false;
                             }
                             cv=2;
                      }
                      if(flag4==true)
                             count++;
                             if(count>1)
       if(names[player[3]].substring(0,1).equals(names[player[cv]].substring(0,1))){}
                                     else mainflag=false;
                             }
                             cv=3;
                      if(flag5==true)
```

```
SSN COLLEGE OF ENGINEERING
                                                                      Sheet no.....
                               RECORD SHEET
              {
                     count++;
                     if(count>1)
if(names[player[4]].substring(0,1).equals(names[player[cv]].substring(0,1)))
                            else mainflag=false;
                     }
                     cv=4;
              }
              if(count==0)
                     JOptionPane.showMessageDialog(this, "Select Atleast One Card!!");
                     return 0;
              else if(mainflag==false)
                     JOptionPane.showMessageDialog(this,"CHEATING");
                     return 0;
              }
              else
                     if(count==1)
                            if(flag1==true)
                                   temp=player[0];
                                   player[0]=deck[0];
                                   for(i=0;i<39;i++)
                                          deck[i]=deck[i+1];
                                   deck[39]=opencard;
                                   opencard=temp;
                            }
                            if(flag2==true)
                                   temp=player[1];
                                   player[1]=deck[0];
                                   for(i=0;i<39;i++)
                                          deck[i]=deck[i+1];
                                   deck[39]=opencard;
                                   opencard=temp;
                            }
                            if(flag3==true)
                                   temp=player[2];
```

```
player[2]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
       if(flag4==true)
              temp=player[3];
              player[3]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
       if(flag5==true)
              temp=player[4];
              player[4]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
       }
}
else if(count>=2)
       count2=0;
       if(flag1==true)
       {
              temp=player[0];
              player[0]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
              count2++;
       if(flag2==true)
              temp=player[1];
              player[1]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
```

```
if(count2==0)
                     count2++;
              else
                     names[player[1]]="cardback";
       }
       if(flag3==true)
              temp=player[2];
              player[2]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
              if(count2==0)
                     count2++;
              else
                     names[player[2]]="cardback";
       if(flag4==true)
              temp=player[3];
              player[3]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
              if(count2==0)
                     count2++;
              else
                     names[player[3]]="cardback";
       }
       if(flag5==true)
       {
              temp=player[4];
              player[4]=deck[0];
              for(i=0;i<39;i++)
                     deck[i]=deck[i+1];
              deck[39]=opencard;
              opencard=temp;
              if(count2==0)
                     count2++;
              else
                     names[player[4]]="cardback";
       }
String jok=names[joker].substring(0,1);
```

```
for(i=5;i<10;i++)
       values[i]=opponent[i-5]%13;
       if(values[i]>9)
               values[i]=9;
       values[i]++;
for(i=5;i<10;i++)
       if(names[opponent[i-5]].substring(0,1).equals(jok))
               values[i]=0;
       if(names[opponent[i-5]].substring(0,1).equals("c"))
               values[i]=0;
}
playervalue=0;
opponentvalue=0;
for(i=0;i<5;i++)
{
       values[i]=player[i]%13;
       if(values[i]>9)
               values[i]=9;
       values[i]++;
}
values[10]=opencard%13;
if(values[10]>9)
       values[10]=9;
values[10]++;
values[11]=0;
for(i=12;i<52;i++)
{
       values[i]=deck[i-12]%13;
       if(values[i]>9)
               values[i]=9;
       values[i]++;
for(i=0;i<5;i++)
       if(names[player[i]].substring(0,1).equals(jok))
               values[i]=0;
       if(names[player[i]].substring(0,1).equals("c"))
               values[i]=0;
for(i=12;i<52;i++)
{
       if(names[deck[i-12]].substring(0,1).equals(jok))
               values[i]=0;
```

```
SSN COLLEGE OF ENGINEERING
                                                                               Sheet no.....
                                       RECORD SHEET
                             if(names[opencard].substring(0,1).equals(jok))
                                    values[10]=0;
                             for(i=0;i<5;i++)
                                    playervalue+=(values[i]);
                                    opponentvalue+=values[i+5];
                             }
                             repaint();
                             return count;
                     }
       int exchangeopencard(boolean flag1,boolean flag2,boolean flag3,boolean flag4,boolean
flag5)
       {
              boolean mainflag=true;
                     addup();
                     int count,i,cv;
                     count=0;cv=0;
                     if(flag1==true)
                             count++;
                             cv=0;
                     if(flag2==true)
                             count++;
                             if(count>1)
                             {
       if(!names[player[1]].substring(0,1).equals(names[player[cv]].substring(0,1)))
                                           mainflag=false;
                             }
                             cv=1;
                     if(flag3==true)
                             count++;
                             if(count>1)
                             {
       if(names[player[2]].substring(0,1).equals(names[player[cv]].substring(0,1))){}
                                    else mainflag=false;
                             }
                             cv=2;
```

```
SSN COLLEGE OF ENGINEERING
                                                                        Sheet no.....
                                RECORD SHEET
              if(flag4==true)
                     count++;
                     if(count>1)
                      {
if(names[player[3]].substring(0,1).equals(names[player[cv]].substring(0,1))){}
                             else mainflag=false;
                     cv=3;
              if(flag5==true)
                     count++;
                     if(count>1)
                      {
if (names[player[4]]. substring (0,1). equals (names[player[cv]]. substring (0,1))) \\
                             else mainflag=false;
                     }
                     cv=4;
              if(count==0)
                     JOptionPane.showMessageDialog(this, "Select Atleast One Card!!");
                     return 0;
              else if(mainflag==false)
                     JOptionPane.showMessageDialog(this,"CHEATING");
                     return 0;
              }
              else
              xposition=0;
              yposition=0;
              int temp;
              if(count==1)
              {
                     if(flag1==true)
                      {
                             temp=player[0];
                             player[0]=opencard;
```

opencard=temp;

Sheet no.....

```
temp=values[0];
              values[0]=values[10];
              values[10]=temp;
       }
      if(flag2==true)
              temp=player[1];
              player[1]=opencard;
              opencard=temp;
              temp=values[1];
              values[1]=values[10];
              values[10]=temp;
       if(flag3==true)
              temp=player[2];
              player[2]=opencard;
              opencard=temp;
              temp=values[2];
              values[2]=values[10];
              values[10]=temp;
       if(flag4==true)
              temp=player[3];
              player[3]=opencard;
              opencard=temp;
              temp=values[3];
              values[3]=values[10];
              values[10]=temp;
      if(flag5==true)
              temp=player[4];
              player[4]=opencard;
              opencard=temp;
              temp=values[4];
              values[4]=values[10];
              values[10]=temp;
       }
else if(count>=2)
       int count2=0;
```

}

```
if(flag1==true)
       count2++;
       temp=player[0];
       player[0]=opencard;
       opencard=temp;
       temp=values[0];
       values[0]=values[10];
       values[10]=temp;
if(flag2==true)
       if(count2==0)
       count2++;
       temp=player[1];
       player[1]=opencard;
       opencard=temp;
       temp=values[1];
       values[1]=values[10];
       values[10]=temp;
       }
       else
       names[player[1]]="cardback";
       values[1]=0;
       }
if(flag3==true)
{
       if(count2==0)
       {count2++;
       temp=player[2];
       player[2]=opencard;
       opencard=temp;
       temp=values[2];
       values[2]=values[10];
       values[10]=temp;
       }
       else
       names[player[2]]="cardback";
       values[2]=0;
       }
if(flag4==true)
```

```
SSN COLLEGE OF ENGINEERING
                                                  Sheet no.....
           RECORD SHEET
  {
         if(count2==0)
         {count2++;
         temp=player[3];
         player[3]=opencard;
         opencard=temp;
         temp=values[3];
         values[3]=values[10];
         values[10]=temp;
         }
         else
         names[player[3]]="cardback";
         values[3]=0;
         }
  if(flag5==true)
         if(count2==0)
         {count2++;
         temp=player[4];
         player[4]=opencard;
         opencard=temp;
         temp=values[4];
         values[4]=values[10];
         values[10]=temp;
         }
         else
         names[player[4]]="cardback";
         values[4]=0;
         }
```

}

for(i=5;i<10;i++)

for(i=5;i<10;i++)

String jok=names[joker].substring(0,1);

if(values[i]>9)

values[i]++;

values[i]=opponent[i-5]%13;

values[i]=9;

values[i]=0;

if(names[opponent[i-5]].substring(0,1).equals(jok))

```
if(names[opponent[i-5]].substring(0,1).equals("c"))
               values[i]=0;
}
playervalue=0;
opponentvalue=0;
for(i=0;i<5;i++)
       values[i]=player[i]%13;
       if(values[i]>9)
               values[i]=9;
       values[i]++;
values[10]=opencard%13;
if(values[10]>9)
       values[10]=9;
values[10]++;
values[11]=0;
for(i=12;i<52;i++)
       values[i]=deck[i-12]%13;
       if(values[i]>9)
               values[i]=9;
       values[i]++;
for(i=0;i<5;i++)
       if(names[player[i]].substring(0,1).equals(jok))
               values[i]=0;
       if(names[player[i]].substring(0,1).equals("c"))
               values[i]=0;
}
for(i=12;i<52;i++)
       if(names[deck[i-12]].substring(0,1).equals(jok))
               values[i]=0;
if(names[opencard].substring(0,1).equals(jok))
       values[10]=0;
for(i=0;i<5;i++)
{
       playervalue+=(values[i]);
       opponentvalue+=values[i+5];
repaint();
return count;
```

```
}
}
void reshuffle()
       int i;
       for(i=0;i<52;i++)
               names[i]=namestemp[i];
       reshuffle=0;
       Collections.shuffle(al);
       for(i=0;i<5;i++)
               player[i]=(Integer)al.get(i);
               values[i]=player[i]%13;
               if(values[i]>9)
                      values[i]=9;
               values[i]++;
       }
       for(i=5;i<10;i++)
               opponent[i-5]=(Integer)al.get(i);
               values[i]=opponent[i-5]%13;
               if(values[i]>9)
                      values[i]=9;
               values[i]++;
       }
       opencard=(Integer)al.get(10);
       values[10]=opencard%13;
       if(values[10]>9)
               values[10]=9;
       values[10]++;
       for(i=12;i<52;i++)
       {
               deck[i-12]=(Integer)al.get(i);
       joker=(Integer)al.get(11);
       i=0;
       while(joker%13<6)
               joker=deck[0];
               for(i=0;i<39;i++)
                      deck[i]=deck[i+1];
               deck[39]=joker;
       }
       values[11]=0;
       for(i=12;i<52;i++)
       {
```

```
values[i]=deck[i-12]%13;
       if(values[i]>9)
              values[i]=9;
       values[i]++;
}
String jok=names[joker].substring(0,1);
for(i=0;i<5;i++)
       if(names[player[i]].substring(0,1).equals(jok))
              values[i]=0;
for(i=5;i<10;i++)
       if(names[opponent[i-5]].substring(0,1).equals(jok))
              values[i]=0;
for(i=12;i<52;i++)
       if(names[deck[i-12]].substring(0,1).equals(jok))
              values[i]=0;
if(names[opencard].substring(0,1).equals(jok))
       values[10]=0;
playervalue=0;
for(i=0;i<5;i++)
       playervalue+=values[i];
opponentvalue=0;
for(i=5;i<10;i++)
       opponentvalue+=values[i];
try
       xposition=0;
       yposition=0;
       i2=ImageIO.read(new File("Cards/thinking.png"));
       i8=ImageIO.read(new File("Cards/cardback.png"));
       i9=ImageIO.read(new File("Cards/cardback.png"));
       i10=ImageIO.read(new File("Cards/cardback.png"));
       i11=ImageIO.read(new File("Cards/cardback.png"));
       i12=ImageIO.read(new File("Cards/cardback.png"));
       i13=ImageIO.read(new File("Cards/cardback.png"));
       repaint();
catch(IOException e)
{
       System.out.println("IO EXCEPTION");
}
```

```
ImageComponent(int x,int y)
       int i;
       reshuffle=0;
       for(i=0;i<52;i++)
               al.add(new Integer(i));
       Collections.shuffle(al);
       for(i=0;i<5;i++)
               player[i]=(Integer)al.get(i);
               values[i]=player[i]%13;
               if(values[i]>9)
                      values[i]=9;
               values[i]++;
       for(i=5;i<10;i++)
               opponent[i-5]=(Integer)al.get(i);
               values[i]=opponent[i-5]%13;
               if(values[i]>9)
                      values[i]=9;
               values[i]++;
       opencard=(Integer)al.get(10);
       values[10]=opencard%13;
       if(values[10]>9)
               values[10]=9;
       values[10]++;
       for(i=12;i<52;i++)
       {
               deck[i-12]=(Integer)al.get(i);
       joker=(Integer)al.get(11);
       i=0;
       int temp;
       while(joker%13<6)
       {
               temp=joker;
               joker=deck[0];
               for(i=0;i<39;i++)
                       deck[i]=deck[i+1];
               deck[39]=joker;
       }
       values[11]=0;
       for(i=12;i<52;i++)
```

```
{
       values[i]=deck[i-12]%13;
       if(values[i]>9)
              values[i]=9;
       values[i]++;
String jok=names[joker].substring(0,1);
for(i=0;i<5;i++)
{
       if(names[player[i]].substring(0,1).equals(jok))
              values[i]=0;
for(i=5;i<10;i++)
       if(names[opponent[i-5]].substring(0,1).equals(jok))
              values[i]=0;
}
for(i=12;i<52;i++)
       if(names[deck[i-12]].substring(0,1).equals(jok))
              values[i]=0;
if(names[opencard].substring(0,1).equals(jok))
       values[10]=0;
playervalue=0;
for(i=0;i<5;i++)
       playervalue+=values[i];
opponentvalue=0;
for(i=5;i<10;i++)
       opponentvalue+=values[i];
try
       xposition=x;
       yposition=y;
       i1=ImageIO.read(new File("Cards/blankwhite.png"));
       i2=ImageIO.read(new File("Cards/thinking.png"));
       i8=ImageIO.read(new File("Cards/cardback.png"));
       i9=ImageIO.read(new File("Cards/cardback.png"));
       i10=ImageIO.read(new File("Cards/cardback.png"));
       i11=ImageIO.read(new File("Cards/cardback.png"));
       i12=ImageIO.read(new File("Cards/cardback.png"));
       i13=ImageIO.read(new File("Cards/cardback.png"));
}
catch(IOException e)
{
```

```
Sheet no.....
```

```
System.out.println("IO EXCEPTION");
             }
      }
}
public class cards extends JFrame implements ActionListener
      JPanel p=new JPanel();
      JPanel p1=new JPanel();
      JPanel p2=new JPanel();
      JPanel p3=new JPanel();
      JPanel p4=new JPanel();
      JMenuBar me=new JMenuBar();
      JTextField tf=new JTextField("",30);
      JMenu menu=new JMenu("MENU");
      JMenuItem aboutgame=new JMenuItem("How to play");
      JMenuItem author=new JMenuItem("About Author");
      JMenuItem quit=new JMenuItem("Exit");
      JButton b1=new JButton("");
      JButton b2=new JButton("");
      JButton b3=new JButton("");
      JButton b4=new JButton("");
      JButton b5=new JButton("");
      JButton b6=new JButton("");
      JButton b7=new JButton("");
      JButton b8=new JButton("");
      JButton b9=new JButton("");
      JButton b10=new JButton("");
      JCheckBox r1=new JCheckBox("Card 1");
      JCheckBox r2=new JCheckBox("Card 2");
      JCheckBox r3=new JCheckBox("Card 3");
      JCheckBox r4=new JCheckBox("Card 4");
      JCheckBox r5=new JCheckBox("Card 5");
      ImageComponent im;
      JLabel I1=new JLabel(" Open Card");
      JLabel | 12=new JLabel("
                               Deck");
                               Joker");
      JLabel |3=new JLabel("
      JLabel I4=new JLabel("
                               BID!!!");
      JLabel I5=new JLabel("
                               Deselect");
      JLabel I6=new JLabel("Opponent Cards -:");
      JLabel I7=new JLabel("Player Cards -:");
      GridLayout g1=new GridLayout(1,5,10,10);
      GridBagConstraints g=new GridBagConstraints();
      GridBagConstraints c=new GridBagConstraints();
      String text;
```

```
public cards()
              setTitle("5 Cards");
              setSize(500,530);
              setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
              setVisible(true);
              me.add(menu);
              menu.add(aboutgame);
              menu.add(author);
              menu.add(quit);
              aboutgame.setActionCommand("aboutgame");
              aboutgame.addActionListener(this);
              author.setActionCommand("author");
              author.addActionListener(this);
              quit.setActionCommand("quit");
              quit.addActionListener(this);
      aboutgame.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.
VK G, java.awt.event.InputEvent.CTRL MASK));
      author.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK
A, java.awt.event.InputEvent.CTRL MASK));
      quit.setAccelerator(javax.swing.KeyStroke.getKeyStroke(java.awt.event.KeyEvent.VK Q,
java.awt.event.InputEvent.CTRL_MASK));
              setJMenuBar(me);
              r1.addActionListener(this);
              r2.addActionListener(this);
              r3.addActionListener(this);
              r4.addActionListener(this);
              r5.addActionListener(this);
              p2.setLayout(new GridBagLayout());
              g.fill
                     = GridBagConstraints.BOTH;
              g.weightx = 0.5;
              g.weighty = 0.5;
              g.gridwidth = 1;
              g.anchor = GridBagConstraints.CENTER;
              g.insets = new Insets(0,10,5,10);
              g.gridx = 0;
              g.gridy = 0;
              p2.add(b1,g);
                     = GridBagConstraints.BOTH;
              g.fill
```

```
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 1;
g.gridy = 0;
p2.add(b2,g);
     = GridBagConstraints.BOTH;
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 2;
g.gridy = 0;
p2.add(b3,g);
      = GridBagConstraints.BOTH;
g.fill
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 3;
g.gridy = 0;
p2.add(b9,g);
     = GridBagConstraints.BOTH;
g.fill
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 4;
g.gridy = 0;
p2.add(b10,g);
g.fill
     = GridBagConstraints.BOTH;
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 0;
```

```
g.gridy = 1;
p2.add(l1,g);
     = GridBagConstraints.BOTH;
g.fill
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 1;
g.gridy = 1;
p2.add(l2,g);
     = GridBagConstraints.BOTH;
g.fill
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 2;
g.gridy = 1;
p2.add(I3,g);
     = GridBagConstraints.BOTH;
g.fill
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 3;
g.gridy = 1;
p2.add(I4,g);
g.fill
     = GridBagConstraints.BOTH;
g.weightx = 0.5;
g.weighty = 0.5;
g.gridwidth = 1;
g.anchor = GridBagConstraints.CENTER;
g.insets = new Insets(0,10,5,10);
g.gridx = 4;
g.gridy = 1;
p2.add(l5,g);
     = GridBagConstraints.BOTH;
g.fill
g.weightx = 0.5;
g.weighty = 0.5;
```

```
Sheet no.....
```

```
g.gridwidth = 5;
             g.anchor = GridBagConstraints.CENTER;
             g.insets = new Insets(0,10,5,10);
             g.gridx = 0;
             g.gridy = 4;
             p2.add(I6,g);
//----//
             p4.setLayout(new GridBagLayout());
             c.fill
                   = GridBagConstraints.BOTH;
             c.weightx = 0.5;
             c.weighty = 0.5;
             c.gridwidth = 5;
             c.anchor = GridBagConstraints.CENTER;
             c.insets = new Insets(0,10,5,10);
             c.gridx = 0;
             c.gridy = 0;
             p4.add(tf,c);
             c.fill = GridBagConstraints.BOTH;
             c.weightx = 0.5;
             c.weighty = 0.5;
             c.gridwidth = 5;
             c.anchor = GridBagConstraints.CENTER;
             c.insets = new Insets(0,10,5,10);
             c.gridx = 0;
             c.gridy = 1;
             p4.add(I7,c);
                   = GridBagConstraints.BOTH;
             c.weightx = 0.5;
             c.weighty = 0.5;
             c.gridwidth = 1;
             c.anchor = GridBagConstraints.CENTER;
             c.insets = new Insets(0,10,5,10);
             c.gridx = 0;
             c.gridy = 2;
             p4.add(b4,c);
                   = GridBagConstraints.BOTH;
             c.weightx = 0.5;
             c.weighty = 0.5;
             c.gridwidth = 1;
```

```
c.anchor = GridBagConstraints.CENTER;
c.insets = new Insets(0,10,5,10);
c.gridx = 1;
c.gridy = 2;
p4.add(b5,c);
      = GridBagConstraints.BOTH;
c.weightx = 0.5;
c.weighty = 0.5;
c.gridwidth = 1;
c.anchor = GridBagConstraints.CENTER;
c.insets = new Insets(0,10,5,10);
c.gridx = 2;
c.gridy = 2;
p4.add(b6,c);
      = GridBagConstraints.BOTH;
c.fill
c.weightx = 0.5;
c.weighty = 0.5;
c.gridwidth = 1;
c.anchor = GridBagConstraints.CENTER;
c.insets = new Insets(0,10,5,10);
c.gridx = 3;
c.gridy = 2;
p4.add(b7,c);
     = GridBagConstraints.BOTH;
c.fill
c.weightx = 0.5;
c.weighty = 0.5;
c.gridwidth = 1;
c.anchor = GridBagConstraints.CENTER;
c.insets = new Insets(0,10,5,10);
c.gridx = 4;
c.gridy = 2;
p4.add(b8,c);
add(p2,BorderLayout.NORTH);
add(p4,BorderLayout.SOUTH);
im=new ImageComponent(0,0);
add(im);
setResizable(false);
tf.setText(im.playerscore());
tf.setBounds(10,10,30,50);
b1.setIcon(new ImageIcon("Cards/"+im.names[im.opencard]+".png"));
b2.setIcon(new ImageIcon("Cards/"+"cardback"+".png"));
```

```
b3.setIcon(new ImageIcon("Cards/"+im.names[im.joker]+".png"));
       b4.setIcon(new ImageIcon("Cards/"+im.names[im.player[0]]+".png"));
       b5.setIcon(new ImageIcon("Cards/"+im.names[im.player[1]]+".png"));
       b6.setIcon(new ImageIcon("Cards/"+im.names[im.player[2]]+".png"));
       b7.setIcon(new ImageIcon("Cards/"+im.names[im.player[3]]+".png"));
       b8.setIcon(new ImageIcon("Cards/"+im.names[im.player[4]]+".png"));
       b9.setIcon(new ImageIcon("Cards/bid.png"));
       b10.setIcon(new ImageIcon("Cards/deselect.png"));
       b1.setActionCommand("opencard");
       b2.setActionCommand("deck");
       b3.setActionCommand("joker");
       b4.setActionCommand("1");
       b5.setActionCommand("2");
       b6.setActionCommand("3");
       b7.setActionCommand("4");
       b8.setActionCommand("5");
       b9.setActionCommand("bid");
       b10.setActionCommand("deselect");
       b1.addActionListener(this);
       b2.addActionListener(this);
       b3.addActionListener(this);
       b4.addActionListener(this);
       b5.addActionListener(this);
       b6.addActionListener(this);
       b7.addActionListener(this);
       b8.addActionListener(this);
       b9.addActionListener(this);
       b10.addActionListener(this);
       p2.setBackground(Color.WHITE);
       p4.setBackground(Color.WHITE);
}
public void actionPerformed(ActionEvent event)
       boolean enable;
       String input="";
       int retopencard, retcnt, opp;
       if("aboutgame".equals(event.getActionCommand()))
       {
```

JOptionPane.showMessageDialog(this,"This is a 2 player game, one being you and the other being the system. \nYou will be given 5 cards. Each card has a value associated with it. \nFor example, 2 from any suit has a value 2. Similarly, 8 from \nany suit has a value 8. A point to be noted here is that 10, J, Q \nand K of all suits have a value of 10 only. Also, the joker card is set \na value of 0. So, if 8 is the joker, then all the 8's get a value of \n0. The player's basic motive is to reduce the value of cards he/she\n has. The sum of all the 5 cards must be as low as possible. The \nplayer can select one card (or more than one card if they have the same \nname, like 2 or more J's, 2 or more 10's etc.) and replace them \nwith one card from the deck or the

open card and place their selected \ncard(s) as the open card. Now, the turn goes to the opponent and he \nselects either from open card or deck and places his replacement \ncard on the open card. At all times, both the player and the opponent \nhas 5 or lesser cards only! When the player feels that his total \nvalue is considerably less, he/she can cast a bid. If the opponent's \ntotal is less than the player's score, the opponent wins and 50 points \nget added to the player. Otherwise, 50 points is added to the \nopponent. (Even the opponent will bid. It is not like the game will \nstop only after the player bids). Then, the cards are reshuffled and \na new game is started. The game stops when either player or the opponent \nreaches 150 points. The one who reaches first, is the loser.");

```
else if("author".equals(event.getActionCommand()))
                      JOptionPane.showMessageDialog(this,"This game is designed by none
other than Pramodh, \nCSE department (at present 3rd year), \nSSN College Of Engineering");
              else if("quit".equals(event.getActionCommand()))
                      System.exit(0);
              if("1".equals(event.getActionCommand()))
                      input="";
                      r1.setSelected(true);
                      if(r1.isSelected())
                             input+="1";
                      if(r2.isSelected())
                             input+="2";
                      if(r3.isSelected())
                             input+="3";
                      if(r4.isSelected())
                             input+="4";
                      if(r5.isSelected())
                             input+="5";
                      tf.setText("Card(s) Selected: "+input);
              if("2".equals(event.getActionCommand()))
                      input="";
                      r2.setSelected(true);
                      if(r1.isSelected())
                             input+="1";
                      if(r2.isSelected())
                             input+="2";
                      if(r3.isSelected())
                             input+="3";
                      if(r4.isSelected())
```

```
input+="4";
       if(r5.isSelected())
               input+="5";
       tf.setText("Card(s) Selected : "+input);
}
if("3".equals(event.getActionCommand()))
       input="";
       r3.setSelected(true);
       if(r1.isSelected())
               input+="1";
       if(r2.isSelected())
               input+="2";
       if(r3.isSelected())
               input+="3";
       if(r4.isSelected())
               input+="4";
       if(r5.isSelected())
               input+="5";
       tf.setText("Card(s) Selected: "+input);
if("4".equals(event.getActionCommand()))
       input="";
       r4.setSelected(true);
       if(r1.isSelected())
               input+="1";
       if(r2.isSelected())
               input+="2";
       if(r3.isSelected())
               input+="3";
       if(r4.isSelected())
               input+="4";
       if(r5.isSelected())
               input+="5";
       tf.setText("Card(s) Selected : "+input);
if("5".equals(event.getActionCommand()))
       input="";
       r5.setSelected(true);
       if(r1.isSelected())
               input+="1";
       if(r2.isSelected())
               input+="2";
       if(r3.isSelected())
```

```
SSN COLLEGE OF ENGINEERING
                                                                                Sheet no.....
                                       RECORD SHEET
                             input+="3";
                      if(r4.isSelected())
                             input+="4";
                      if(r5.isSelected())
                             input+="5";
                     tf.setText("Card(s) Selected : "+input);
              if("joker".equals(event.getActionCommand()))
                      JOptionPane.showMessageDialog(this,"You Can't Replace With Joker!!");
              if("opencard".equals(event.getActionCommand()))
       retopencard=im.exchangeopencard(r1.isSelected(),r2.isSelected(),r3.isSelected(),r4.isSele
cted(),r5.isSelected());
                      if(retopencard>=2)
                      {
                             retcnt=0;
                             if(r1.isSelected())
                             {
                                     retcnt++;
                                     r1.setSelected(false);
                             if(r2.isSelected())
                                     r2.setSelected(false);
                                     if(retcnt==0)
                                            retcnt++;
                                     else
                                            r2.setEnabled(false);
                             if(r3.isSelected())
                                     r3.setSelected(false);
                                     if(retcnt==0)
                                            retcnt++;
                                     else
                                            r3.setEnabled(false);
                             }
                             if(r4.isSelected())
                                     r4.setSelected(false);
                                     if(retcnt==0)
                                            retcnt++;
                                     else
                                            r4.setEnabled(false);
```

```
SSN COLLEGE OF ENGINEERING
                                                                              Sheet no.....
                                      RECORD SHEET
                            if(r5.isSelected())
                                   r5.setSelected(false);
                                   if(retcnt==0)
                                           retcnt++;
                                   else
                                           r5.setEnabled(false);
                            }
                     if(r1.isSelected())
                            r1.setSelected(false);
                     if(r2.isSelected())
                            r2.setSelected(false);
                     if(r3.isSelected())
                            r3.setSelected(false);
                     if(r4.isSelected())
                            r4.setSelected(false);
                     if(r5.isSelected())
                            r5.setSelected(false);
                     if(retopencard!=0)
                     opp=im.opponentplay();
                     if(opp==0)
                            tf.setText(im.playerscore()+"\tOpponent Exchanged from Deck");
                     else if(opp==1)
                            tf.setText(im.playerscore()+"\tOpponent Exchanged from
OpenCard");
                     b1.setlcon(new Imagelcon("Cards/"+im.names[im.opencard]+".png"));
                     b2.setIcon(new ImageIcon("Cards/"+"cardback"+".png"));
                     b3.setIcon(new ImageIcon("Cards/"+im.names[im.joker]+".png"));
                     b4.setIcon(new ImageIcon("Cards/"+im.names[im.player[0]]+".png"));
                     b5.setlcon(new Imagelcon("Cards/"+im.names[im.player[1]]+".png"));
                     b6.setIcon(new ImageIcon("Cards/"+im.names[im.player[2]]+".png"));
                     b7.setlcon(new Imagelcon("Cards/"+im.names[im.player[3]]+".png"));
                     b8.setIcon(new ImageIcon("Cards/"+im.names[im.player[4]]+".png"));
                     enable=im.opponentbid();
                     if(enable==true)
                     {
                            r1.setEnabled(true);
                            r2.setEnabled(true);
                            r3.setEnabled(true);
                            r4.setEnabled(true);
                            r5.setEnabled(true);
                     input="";
                     b1.setlcon(new Imagelcon("Cards/"+im.names[im.opencard]+".png"));
```

```
b2.setIcon(new ImageIcon("Cards/"+"cardback"+".png"));
              b3.setIcon(new ImageIcon("Cards/"+im.names[im.joker]+".png"));
              b4.setIcon(new ImageIcon("Cards/"+im.names[im.player[0]]+".png"));
              b5.setlcon(new ImageIcon("Cards/"+im.names[im.player[1]]+".png"));
              b6.setIcon(new ImageIcon("Cards/"+im.names[im.player[2]]+".png"));
              b7.setlcon(new ImageIcon("Cards/"+im.names[im.player[3]]+".png"));
              b8.setIcon(new ImageIcon("Cards/"+im.names[im.player[4]]+".png"));
              if(im.names[im.player[0]].equals("cardback"))
                      b4.setEnabled(false);
              if(im.names[im.player[1]].equals("cardback"))
                     b5.setEnabled(false);
              if(im.names[im.player[2]].equals("cardback"))
                      b6.setEnabled(false);
              if(im.names[im.player[3]].equals("cardback"))
                     b7.setEnabled(false);
              if(im.names[im.player[4]].equals("cardback"))
                     b8.setEnabled(false);
              if(im.reshuffle==0)
                     im.reshuffle=1;
                     if(r1.isSelected())
                             r1.setEnabled(true);
                     if(r2.isSelected())
                             r2.setEnabled(true);
                     if(r3.isSelected())
                             r3.setEnabled(true);
                     if(r4.isSelected())
                             r4.setEnabled(true);
                     if(r5.isSelected())
                             r5.setEnabled(true);
                      b4.setEnabled(true);
                      b5.setEnabled(true);
                     b6.setEnabled(true);
                     b7.setEnabled(true);
                     b8.setEnabled(true);
                     tf.setText(im.playerscore());
              }
              }
       if("deck".equals(event.getActionCommand()))
retopencard=im.exchangefromdeck(r1.isSelected(),r2.isSelected(),r3.isSelected(),r4.isSele
```

cted(),r5.isSelected());

```
if(retopencard>=2)
       retcnt=0;
       if(r1.isSelected())
               retcnt++;
               r1.setSelected(false);
       if(r2.isSelected())
               r2.setSelected(false);
               if(retcnt==0)
                       retcnt++;
               else
                       r2.setEnabled(false);
       if(r3.isSelected())
               r3.setSelected(false);
        {
               if(retcnt==0)
                       retcnt++;
               else
                       r3.setEnabled(false);
       }
       if(r4.isSelected())
               r4.setSelected(false);
               if(retcnt==0)
                       retcnt++;
               else
                       r4.setEnabled(false);
       if(r5.isSelected())
               r5.setSelected(false);
               if(retcnt==0)
                       retcnt++;
               else
               r5.setEnabled(false);
       }
if(r1.isSelected())
       r1.setSelected(false);
if(r2.isSelected())
       r2.setSelected(false);
if(r3.isSelected())
       r3.setSelected(false);
if(r4.isSelected())
       r4.setSelected(false);
```

```
Sheet no.....
```

```
if(r5.isSelected())
                            r5.setSelected(false);
                     if(retopencard!=0)
                     {opp=im.opponentplay();
                     if(opp==0)
                            tf.setText(im.playerscore()+"\tOpponent Exchanged from Deck");
                     else if(opp==1)
                            tf.setText(im.playerscore()+"\tOpponent Exchanged from
OpenCard");
                     b1.setlcon(new Imagelcon("Cards/"+im.names[im.opencard]+".png"));
                     b2.setIcon(new ImageIcon("Cards/"+"cardback"+".png"));
                     b3.setIcon(new ImageIcon("Cards/"+im.names[im.joker]+".png"));
                     b4.setIcon(new ImageIcon("Cards/"+im.names[im.player[0]]+".png"));
                     b5.setlcon(new ImageIcon("Cards/"+im.names[im.player[1]]+".png"));
                     b6.setIcon(new ImageIcon("Cards/"+im.names[im.player[2]]+".png"));
                     b7.setlcon(new Imagelcon("Cards/"+im.names[im.player[3]]+".png"));
                     b8.setIcon(new ImageIcon("Cards/"+im.names[im.player[4]]+".png"));
                     enable=im.opponentbid();
                     if(enable==true)
                     {
                            r1.setEnabled(true);
                            r2.setEnabled(true);
                            r3.setEnabled(true);
                            r4.setEnabled(true);
                            r5.setEnabled(true);
                     input="";
                     b1.setlcon(new Imagelcon("Cards/"+im.names[im.opencard]+".png"));
                     b2.setIcon(new ImageIcon("Cards/"+"cardback"+".png"));
                     b3.setIcon(new ImageIcon("Cards/"+im.names[im.joker]+".png"));
                     b4.setIcon(new ImageIcon("Cards/"+im.names[im.player[0]]+".png"));
                     b5.setlcon(new Imagelcon("Cards/"+im.names[im.player[1]]+".png"));
                     b6.setIcon(new ImageIcon("Cards/"+im.names[im.player[2]]+".png"));
                     b7.setIcon(new ImageIcon("Cards/"+im.names[im.player[3]]+".png"));
                     b8.setIcon(new ImageIcon("Cards/"+im.names[im.player[4]]+".png"));
                     if(im.names[im.player[0]].equals("cardback"))
                            b4.setEnabled(false);
                     if(im.names[im.player[1]].equals("cardback"))
                            b5.setEnabled(false);
                     if(im.names[im.player[2]].equals("cardback"))
                            b6.setEnabled(false);
                     if(im.names[im.player[3]].equals("cardback"))
                            b7.setEnabled(false);
                     if(im.names[im.player[4]].equals("cardback"))
                            b8.setEnabled(false);
```

```
if(im.reshuffle==0)
              im.reshuffle=1;
              if(r1.isSelected())
                      r1.setEnabled(true);
              if(r2.isSelected())
                      r2.setEnabled(true);
              if(r3.isSelected())
                      r3.setEnabled(true);
              if(r4.isSelected())
                      r4.setEnabled(true);
              if(r5.isSelected())
                      r5.setEnabled(true);
              b4.setEnabled(true);
              b5.setEnabled(true);
              b6.setEnabled(true);
              b7.setEnabled(true);
              b8.setEnabled(true);
              tf.setText(im.playerscore());
       }
       }
}
if("bid".equals(event.getActionCommand()))
       im.checkwinner();
       r1.setEnabled(true);
       r2.setEnabled(true);
       r3.setEnabled(true);
       r4.setEnabled(true);
       r5.setEnabled(true);
       b4.setEnabled(true);
       b5.setEnabled(true);
       b6.setEnabled(true);
       b7.setEnabled(true);
       b8.setEnabled(true);
       b1.setlcon(new Imagelcon("Cards/"+im.names[im.opencard]+".png"));
       b2.setIcon(new ImageIcon("Cards/"+"cardback"+".png"));
       b3.setIcon(new ImageIcon("Cards/"+im.names[im.joker]+".png"));
       b4.setlcon(new Imagelcon("Cards/"+im.names[im.player[0]]+".png"));
       b5.setlcon(new Imagelcon("Cards/"+im.names[im.player[1]]+".png"));
       b6.setIcon(new ImageIcon("Cards/"+im.names[im.player[2]]+".png"));
       b7.setIcon(new ImageIcon("Cards/"+im.names[im.player[3]]+".png"));
       b8.setIcon(new ImageIcon("Cards/"+im.names[im.player[4]]+".png"));
       tf.setText("Next Game\t"+im.playerscore());
}
```

Sheet no.....

SSN COLLEGE OF ENGINEERING RECORD SHEET

```
if("deselect".equals(event.getActionCommand()))
              if(r1.isSelected())
              r1.setSelected(false);
              if(r2.isSelected())
              r2.setSelected(false);
              if(r3.isSelected())
              r3.setSelected(false);
              if(r4.isSelected())
              r4.setSelected(false);
              if(r5.isSelected())
              r5.setSelected(false);
              tf.setText(im.playerscore());
       }
}
public static void main(String[] args)
       try
UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
       catch (Exception unused)
       {
       }
       cards c=new cards();
       c.setBackground(Color.WHITE);
       c.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       c.setVisible(true);
}
```

OUTPUT-:

Selecting a Card-:



Opponent Cards -:





Card(s) Selected: 5

Player Cards -:











Replacing With Open Card-:



Opponent Cards -:

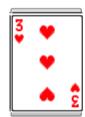


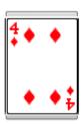


Card(s) Selected: 25

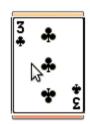
Player Cards -:











After Replacing -:



Opponent Cards -:





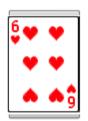
Your Score: 21 Opponent Exchanged from OpenCard

Player Cards -:











Selecting 2 cards that are not equal-:



Opponent Cards -:



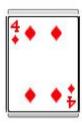


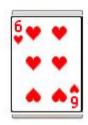
Card(s) Selected : 2 4

Player Cards -:











Error Message Printed-:



Bidding by Player-:



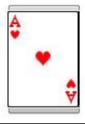
Opponent Cards -:



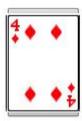


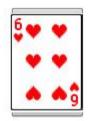
Your Score: 21

Player Cards -:











Player Lost-:



Scores after game is over (Total game ends when either player or opponent reaches 150)-:

