USER INTERFACE FOR WELCOME PAGE

AIM:

To design a user interface for a Welcome Page.

```
public class Welcome extends javax.swing.JFrame {
  public Welcome() {
    initComponents();
  }
@SuppressWarnings("unchecked")
private void jTextField1KeyTyped(java.awt.event.KeyEvent evt) {
    char c = evt.getKeyChar();
    if(!Character.isDigit(c)){
      jTextField2.setEditable(false);
       JOptionPane.showMessageDialog(null,"Number only");
     }
    else{
      jTextField2.setEditable(true);
     }
  }
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    s_name=jTextField2.getText();
    s_dep=jTextField3.getText();
    jTextField4.setText("\t Welcome "+s_name+" of "+s_dep);
```

```
}
public static void main(String args[]) {
    java.awt.EventQueue.invokeLater(new Runnable()
       { public void run() {
         new Welcome().setVisible(true);
       }
  }
String s_name,s_dep;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private keeptoo.KGradientPanel
kGradientPanel1;
```

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RESULT:

Therefore the user interface has been created successfully.

USER INTERFACE BY APPLYING DESIGN RULES FOR ASSIGNING A GRADE TO STUDENTS BASED ON THEIR SUBJECT MARKS

AIM:

To design a user interface by applying design rules for assigning a grade to students based on their subject marks.

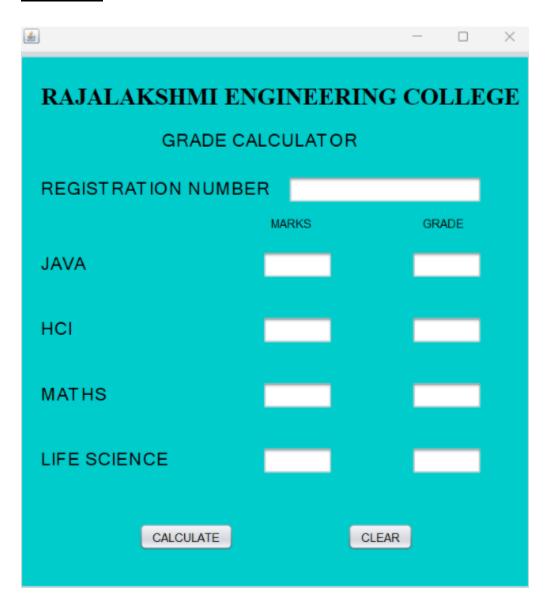
```
public class grade extends javax.swing.JFrame { public grade() {
    initComponents();
  }
  @SuppressWarnings("unchecked")
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { int s_id =
      Integer.parseInt(jTextField1.getText());
      double java = Double.parseDouble( jTextField2.getText()); double hci =
      Double.parseDouble(jTextField3.getText()); double maths =
      Double.parseDouble(jTextField4.getText()); double lifescience =
      Double.parseDouble(jTextField5.getText()); String grade1 = null;
      if(java>90){
        grade1 = "A";
      }
      else if((java>85)&&(java<90)){
        grade1 = "B";
      }
      else if((java>80)&&(java<85)){
```

```
grade1 = "C";
else if((java>70)&&(java<80)){ grade1 = "D";
}
else if((java > 60) \& \& (java < 70)){ grade1 = "E";
}
else{
  grade1 = "F";
}
jTextField6.setText("
"+grade1); String grade2 = null;
if(hci>90){
  grade2 = "A";
}
else if((hci>85)&&(hci<90)){
  grade2 = "B";
}
else if((hci>80)&&(hci<85)){
  grade2 = "C";
}
else if((hci>70)&&(hci<80)){
  grade2 = "D";
}
else if((hci>60)&&(hci<70)){
  grade2 = "E";
}
```

```
else{
  grade2 = "F";
}
jTextField7.setText(" "+grade2);
String grade3 = null;
if(maths>90){
  grade3 = "A";
}
else if((maths>85)&&(maths<90)){ grade3 = "B";
else if((maths>80)&&(maths<85)){
  grade3 = "C";
else if((maths>70)&&(maths<80)){
  grade3 = "D";
}
else if((maths>60)&&(maths<70)){
  grade3 = "E";
}
else{
  grade3 = "F";
jTextField8.setText(" "+grade3);
String grade4 = null;
if(lifescience>90){
  grade4 = "A";
}
```

```
else if((lifescience>85)&&(lifescience<90)){ grade4 = "B";
     else if((lifescience>80)&&(lifescience<85)){ grade4 = "C";
      }
     else if((lifescience>70)&&(lifescience<80)){ grade4 = "D";
      }
     else if((lifescience>60)&&(lifescience<70)){
        grade4 = "E";
      }
     else{
        grade4 = "F";
     jTextField9.setText(" "+grade4);
  }
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    jTextField1.setText("");
    ¡TextField2.setText("");
    jTextField3.setText("");
    jTextField4.setText("");
    jTextField5.setText("");
    ¡TextField6.setText("");
    jTextField7.setText("");
    jTextField8.setText("");
    ¡TextField9.setText("");
}
```

```
public static void main(String args[]) {
       java.awt.EventQueue.invokeLater(() ->
new grade().setVisible(true);
     });
  private javax.swing.JButton jButton1;
  private javax.swing.JButton jButton2;
  private javax.swing.JLabel jLabel1;
  private javax.swing.JLabel jLabel2;
  private javax.swing.JLabel jLabel3;
  private javax.swing.JLabel jLabel4;
  private javax.swing.JLabel jLabel5;
  private javax.swing.JLabel jLabel6;
  private javax.swing.JLabel jLabel7;
  private javax.swing.JLabel jLabel8;
  private javax.swing.JLabel jLabel9;
  private javax.swing.JPanel jPanel1;
  private javax.swing.JPanel jPanel2;
  private javax.swing.JTextField jTextField1;
  private javax.swing.JTextField jTextField2;
  private javax.swing.JTextField jTextField3;
  private javax.swing.JTextField jTextField4;
  private javax.swing.JTextField jTextField5;
  private javax.swing.JTextField jTextField6;
  private javax.swing.JTextField jTextField7;
  private javax.swing.JTextField jTextField8;
  private javax.swing.JTextField jTextField9; }
```



RESULT:

A user interface by applying design rules for assigning a grade to students based on the subject marks was successfully designed and implemented.

Expt NO:03

ASCENDING ORDER AND DESCENDING ORDER

AIM:

To design a user interface with layouts for printing the numbers in ascending order and descending order.

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Comparator;
public class sortdesign extends javax.swing.JFrame { public sortdesign() {
     initComponents();
  }
@SuppressWarnings("unchecked")
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
     String arr[]=jTextArea1.getText().split(" ");
     int[] numbers=new int[arr.length];
     for (int i=0;i<numbers.length;i++){
       numbers[i]=Integer.parseInt(arr[i]);
     }
     for(int i=0;i<numbers.length;i++){</pre>
       for(int j=0;j<numbers.length-1;j++){
          if(numbers[j]>numbers[j+1]){
```

```
int temp;
         temp = numbers[j];
         numbers[j]=numbers[j+1];
         numbers[j+1]=temp;
       }
  }
  for(int k=0;k<numbers.length;k++){</pre>
    ¡TextArea3.append(numbers[k]+" ");
  }
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
  jTextArea3.setText("");
privatejavax.swing.JScrollPanejScrollPane1;
privatejavax.swing.JScrollPanejScrollPane2;
privatejavax.swing.JScrollPanejScrollPane3;
private javax.swing.JTextArea jTextArea1;
private javax.swing.JTextArea jTextArea2;
private javax.swing.JTextArea jTextArea3;
```

业		_		×
	IGINEERING COLLEGE ESCENDING ORDER			
ENTER THE NUMBERS			Ď	
ASCENDING ORDER			÷	
DESCENDING ORDER			404	
SORT	CLEAR			

RESULT:

Thus the user interface for printing the numbers in ascending order and descending order has been successfully created and executed.

USER INTERFACE BY USING TASK ANALYSIS FOR CALCULATOR

AIM:

To design a user interface by using task analysis for calculator.

```
public class calculator extends javax.swing.JFrame{
public calculator() {
    initComponents();
  }
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
  }
  private void jb1ActionPerformed(java.awt.event.ActionEvent evt) {
    String number=jTextField1.getText()+jb1.getText();
    jTextField1.setText(number);
// TODO add your handling code here:
  }
  private void jb2ActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
```

```
String number=jTextField1.getText()+jb2.getText();
    ¡TextField1.setText(number);
  }
  private void jb3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String number=jTextField1.getText()+jb3.getText();
    ¡TextField1.setText(number);
  }
  private void jb4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String number=jTextField1.getText()+jb4.getText();
    jTextField1.setText(number);
  }
  private void jb5ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String number=jTextField1.getText()+jb5.getText();
    jTextField1.setText(number);
  }
  private void jb6ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
// TODO add your handling code here:
  String number=jTextField1.getText()+jb6.getText();
  ¡TextField1.setText(number);
}
private void jb8ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  String number=jTextField1.getText()+jb8.getText();
  ¡TextField1.setText(number);
}
private void jb9ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  String number=jTextField1.getText()+jb9.getText();
  jTextField1.setText(number);
}
private void jb0ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  String number=jTextField1.getText()+jb0.getText();
  jTextField1.setText(number);
}
```

```
private void jb00ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  String answer;
  second=Double.parseDouble(jTextField1.getText());
  if(operation=="+"){
    result=first+second;
     answer=String.format("%f",result );
    jTextField1.setText(answer);
  }
  else if(operation=="-"){
    result=first-second;
     answer=String.format("%f",result );
    ¡TextField1.setText(answer);
  else if(operation=="x"){
    result=first*second;
     answer=String.format("%f",result );
    jTextField1.setText(answer);
  }
  else if(operation=="/"){
    result=first/second;
     answer=String.format("%.2f",result );
    jTextField1.setText(answer);
```

```
}
}
private void jbcActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  jTextField1.setText("");
}
private void jbsumActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  first =
  Double.parseDouble(jTextField1.getText());
  jTextField1.setText("");
  operation="+";
}
private void jbdifActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  first = Double.parseDouble(jTextField1.getText());
  jTextField1.setText("");
  operation="-";
}
```

```
private void jbmulActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  first =
  Double.parseDouble(jTextField1.getText());
  jTextField1.setText("");
  operation="x";
}
private void jbdivActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  first =
  Double.parseDouble(jTextField1.getText());
  jTextField1.setText("");
  operation="/";
}
private void jb7ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  String number=jTextField1.getText()+jb7.getText();
  jTextField1.setText(number);
}
public static void main(String args[]) {
double first;
double second;
double result;
```

```
String operation;
String answer;
// Variables declaration
private javax.swing.JPanel jPanel1;
private javax.swing.JTextField
jTextField1; private javax.swing.JButton
jb0;
private javax.swing.JButton jb00;
 private javax.swing.JButton jb1;
 private javax.swing.JButton jb2;
 private javax.swing.JButton jb3;
 private javax.swing.JButton jb4;
 private javax.swing.JButton jb5;
 private javax.swing.JButton jb6;
 private javax.swing.JButton jb7;
 private javax.swing.JButton jb8;
 private javax.swing.JButton jb9;
 private javax.swing.JButton jbc;
private javax.swing.JButton jbdif;
private javax.swing.JButton jbdiv;
private javax.swing.JButton jbmul;
private javax.swing.JButton jbsum;
```



RESULT:

Thus the user interface by using task analysis for calculator has been created successfully.

USER INTERFACE WITH DIRECT SELECTION OF REGISTRATION OF STUDENT

AIM:

To design an user interface with direct selection for registration of a student.

FIGMA FILE LINK:

https://www.figma.com/design/HOK5zLMhoB2UHBfB7VKzkl/expt-5?node-id=0-1&t=v3y7oa7flf3ppz7A-1

OUTPUT:



First name *	Last name *	
Parent's name *	Gender *	
Email *	Phone no *	
cademic Details		
Cadolino Dotalio		
X marks *	XII marks *	
X marks *	XII marks *	
X marks * Course *	XII marks *	
	XII marks *	
Course *	XII marks *	

Submit

RESULT:

Thus the user interface with direct selection for registration of a student for admission has been created successfully.

USER INTERFACE FOR PHOTO COLOR

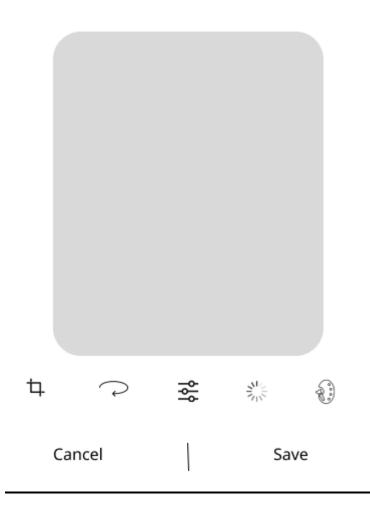
AIM:

To design a user interface by using colours for displaying and changing of picture on the form.

FIGMA FILE LINK:

https://www.figma.com/design/YrUrdXWlt1hl2kYbqYnskl/expt-06?node-id=0-1&t=CP7PPpFL8p5Lll2l-1

OUTPUT:



RESULT:

The user interface by using colours for displaying and changing of picture on the form has been created successfully.

USER INTERFACE WITH WIDGETS FOR END SEMESTER EXAMINATION REGISTRATIONS

AIM:

To design an user interface with widgets for end semester examination registrations.

FIGMA FILE LINK:

https://www.figma.com/design/lxj63M3aAPJyoHliyKdgnb/expt-07?t=CP7PPpFL8p5LlI2l-1

OUTPUT: RAJALAKSHMI **EXAM REGISTRATION** First Name Last Name **Roll Number** DOB Phone number **Email ID Registered Course** Semester Subjects Submit Rajalakshmi

RESULT:

Thus the user interface with widgets for end semester examination registration of a student has been created successfully.

USER INTERFACE BY USING DRAG AND DROP FOR CREATING FORMS

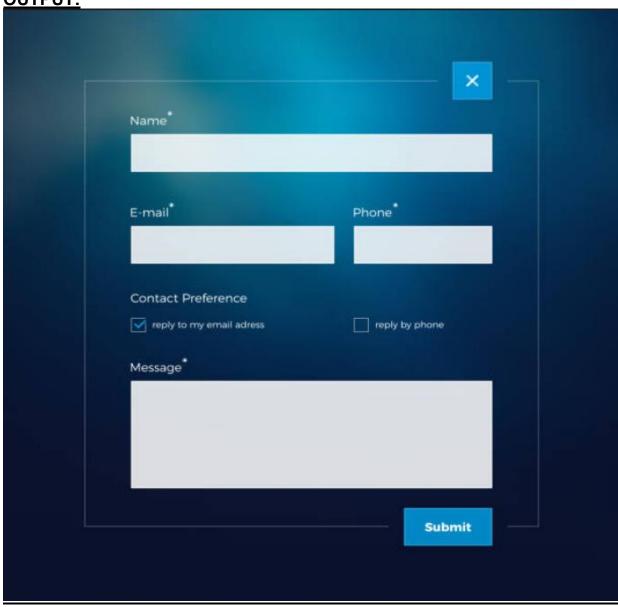
AIM:

To design a user interface with overlays and inlays for menu-based programs.

FIGMA FILE LINK:

https://www.figma.com/design/7qGT3lwp6DXjVGiJDLz8NB/expt-08?t=oKlvb0keM2vgxPtH-1

OUTPUT:



RESULT:

To design a user interface by using drag and drop for creating forms was completed successfully.

USER INTERFACE WITH OVERLAY AND INLAY FOR MENU BASED PROGRAMS

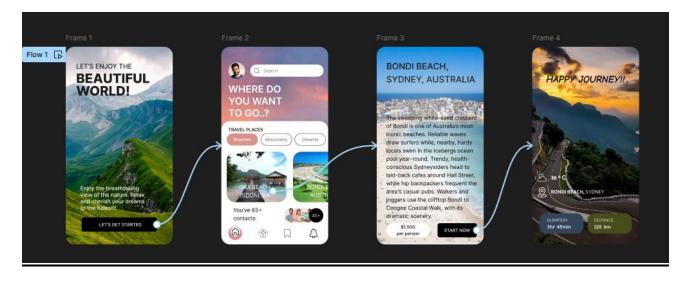
AIM:

To design a user interface with overlays and inlays for menu-based programs.

FIGMA FILE LINK:

https://www.figma.com/proto/IL1qzT9x4LOs9GUCTM8G6Y/expt-09?node-id=3-13&t=Ep2ogG0Y42AeX9J1-1&scaling=min-zoom&page-id=0%3A1&starting-point-node-id=3%3A13

OUTPUT:



RESULT:

Thus the user interface with overlays and inlays for menu-based program has been designed successfully.