

K .J.Somaiya Polytechnic, Mumbai-77

Batch No: C2

Enrollment No.: FCOG19126

Experiment No: 2

Experiment Name: Write a program to design a form using all AWT

components

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Objective

O18RA63.1. Create GUI using different swing & AWT components.

Write a program to implement following Form Structure using AWT controls and any layout manager.(Add any five dates ,months and years in DOB)

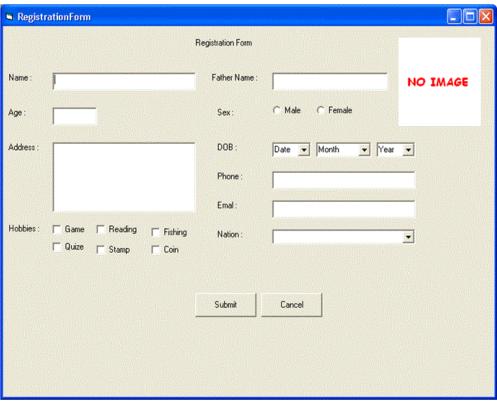


Figure 10. A Sample Registration Form

Implementation:

Program

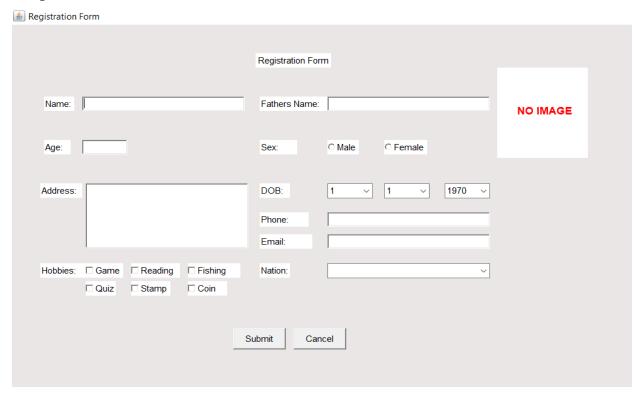
```
import java.awt.*;
class AjPract {
 public static void main(String[] args) throws Exception {
  Frame f1 = new Frame("Registration Form");
  Label 11 = new Label("Registration Form", Label.CENTER);
  11.setBounds(330, 70, 100, 20);
  Panel p1 = new Panel();
  p1.setBounds(650, 90, 120, 125);
  p1.setFocusable(true);
  p1.setLayout(null);
  Label txt = new Label("NO IMAGE");
  txt.setForeground(Color.red);
  txt.setBounds(25, 20, 100, 80);
  txt.setFont(new Font("new times roman", Font.BOLD, 14));
  p1.add(txt);
  Label 12 = new Label("Name:");
  12.setBounds(50, 130, 40, 20);
  TextField t1 = new TextField();
  t1.setBounds(100, 130, 215, 20);
  Label 13 = new Label("Fathers Name: ");
  13.setBounds(335, 130, 90, 20);
  TextField t2 = new TextField();
  t2.setBounds(425, 130, 215, 20);
  Label 10 = new Label("Age:");
  10.setBounds(50, 190, 35, 20);
  TextField t3 = new TextField();
  t3.setBounds(100, 190, 60, 20);
  Label 15 = new Label("Address:");
  15.setBounds(45, 250, 55, 20);
```

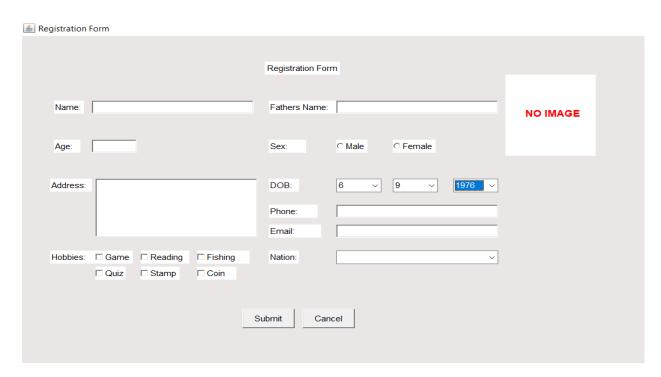
```
TextField ta = new TextField(5):
ta.setBounds(105, 250, 215, 90);
Label 17 = new Label("Phone:");
17.setBounds(335, 290, 65, 20);
TextField t4 = new TextField();
t4.setBounds(425, 290, 215, 20);
Label 18 = new Label("Email:");
18.setBounds(335, 320, 70, 20);
TextField t5 = new TextField();
t5.setBounds(425, 320, 215, 20);
Label 19 = new Label("Nation:");
19.setBounds(335, 360, 40, 20);
Choice nat = new Choice();
nat.setBounds(425, 360, 215, 20);
Label 14 = new Label("Sex:");
14.setBounds(335, 190, 50, 20);
CheckboxGroup cbg = new CheckboxGroup();
Checkbox c1 = new Checkbox("Male", cbg, false);
c1.setBounds(425, 190, 42, 20);
Checkbox c2 = new Checkbox("Female", cbg, false);
c2.setBounds(500, 190, 57, 20);
Label 16 = new Label("DOB:");
16.setBounds(335, 250, 40, 20);
Choice date = new Choice();
date.setBounds(425, 250, 60, 20);
for (int i = 1; i \le 31; ++i)
 date.add(String.valueOf(i));
Choice month = new Choice();
for (int i = 1; i \le 12; ++i)
```

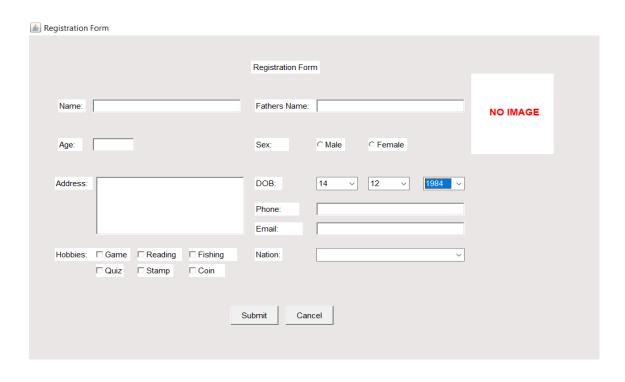
```
month.add(String.valueOf(i));
month.setBounds(500, 250, 60, 20);
Choice year = new Choice();
for (int i = 1970; i \le 2021; ++i)
 year.add(String.valueOf(i));
year.setBounds(580, 250, 60, 20);
Label 110 = new Label("Hobbies:");
110.setBounds(45, 360, 60, 20);
Checkbox c3 = new Checkbox("Game");
c3.setBounds(105, 360, 50, 20);
Checkbox c4 = new Checkbox("Reading");
c4.setBounds(165, 360, 65, 20);
Checkbox c5 = new Checkbox("Fishing");
c5.setBounds(240, 360, 70, 20);
Checkbox c6 = new Checkbox("Quiz");
c6.setBounds(105, 385, 40, 20);
Checkbox c7 = new Checkbox("Stamp");
c7.setBounds(165, 385, 52, 20);
Checkbox c8 = new Checkbox("Coin");
c8.setBounds(240, 385, 52, 20);
Button b1 = new Button("Submit");
b1.setBounds(300, 450, 70, 30);
Button b2 = new Button("Cancel");
b2.setBounds(380, 450, 70, 30);
f1.setLayout(null);
f1.add(10);
f1.add(11);
f1.add(12);
f1.add(13);
f1.add(14);
```

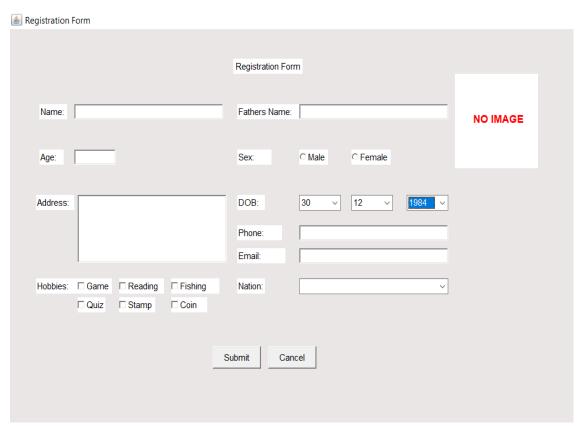
```
f1.add(15);
f1.add(16);
f1.add(17);
f1.add(18);
f1.add(19);
f1.add(110);
f1.add(t1);
f1.add(t2);
f1.add(t3);
f1.add(t4);
f1.add(t5);
f1.add(p1);
f1.add(c1);
f1.add(c2);
f1.add(c3);
f1.add(c4);
f1.add(c5);
f1.add(c6);
f1.add(c7);
f1.add(c8);
f1.add(ta);
f1.add(date);
f1.add(month);
f1.add(year);
f1.add(nat);
f1.setSize(500, 500);
f1.setVisible(true);
f1.setBackground(new Color(235, 230, 230));
 Thread.sleep(30000);
f1.dispose();
}
```

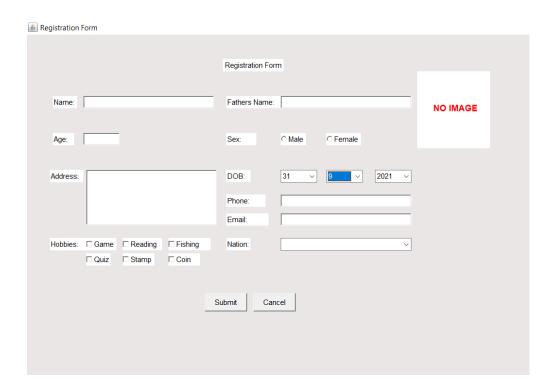
Output











Conclusion- Thus, we have learnt how to design form using AWT components.