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

```java
import java.awt.*;

class AjPract {
 public static void main(String[] args) throws Exception {
  Frame f1 = new Frame("Registration Form");

  Label l1 = new Label("Registration Form", Label.CENTER);
  l1.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 l2 = new Label("Name:");
  l2.setBounds(50, 130, 40, 20);

  TextField t1 = new TextField();
  t1.setBounds(100, 130, 215, 20);

  Label l3 = new Label("Fathers Name: ");
  l3.setBounds(335, 130, 90, 20);

  TextField t2 = new TextField();
  t2.setBounds(425, 130, 215, 20);

  Label l0 = new Label("Age:");
  l0.setBounds(50, 190, 35, 20);

  TextField t3 = new TextField();
  t3.setBounds(100, 190, 60, 20);

  Label l5 = new Label("Address:");
  l5.setBounds(45, 250, 55, 20);
```

```java
TextField ta = new TextField(5);
ta.setBounds(105, 250, 215, 90);

Label l7 = new Label("Phone:");
l7.setBounds(335, 290, 65, 20);

TextField t4 = new TextField();
t4.setBounds(425, 290, 215, 20);

Label l8 = new Label("Email:");
l8.setBounds(335, 320, 70, 20);

TextField t5 = new TextField();
t5.setBounds(425, 320, 215, 20);

Label l9 = new Label("Nation:");
l9.setBounds(335, 360, 40, 20);

Choice nat = new Choice();
nat.setBounds(425, 360, 215, 20);

Label l4 = new Label("Sex:");
l4.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 l6 = new Label("DOB:");
l6.setBounds(335, 250, 40, 20);

Choice date = new Choice();
date.setBounds(425, 250, 60, 20);
for (int i = 1; i <= 31; ++i)
  date.add(String.valueOf(i));

Choice month = new Choice();
for (int i = 1; i <= 12; ++i)
```

```java
    month.add(String.valueOf(i));
month.setBounds(500, 250, 60, 20);

Choice year = new Choice();
for (int i = 1970; i <= 2021; ++i)
  year.add(String.valueOf(i));
year.setBounds(580, 250, 60, 20);

Label l10 = new Label("Hobbies:");
l10.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(l0);
f1.add(l1);
f1.add(l2);
f1.add(l3);
f1.add(l4);
```

```
        f1.add(l5);
        f1.add(l6);
        f1.add(l7);
        f1.add(l8);
        f1.add(l9);
        f1.add(l10);
        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

Registration Form

Registration Form

Name:		Fathers Name:	

NO IMAGE

Age:

Sex: ○ Male   ○ Female

Address:

DOB: [1 ▾]   [1 ▾]   [1970 ▾]

Phone:

Email:

Hobbies: ☐ Game ☐ Reading ☐ Fishing   Nation: [▾]
          ☐ Quiz ☐ Stamp ☐ Coin

Submit   Cancel

Registration Form

Registration Form

Name: Fathers Name:

NO IMAGE

Age:

Sex: ○ Male   ○ Female

Address:

DOB: [6 ▾]   [9 ▾]   [1976 ▾]

Phone:

Email:

Hobbies: ☐ Game ☐ Reading ☐ Fishing   Nation: [▾]
          ☐ Quiz ☐ Stamp ☐ Coin

Submit   Cancel

Registration Form

Registration Form

| Name: | | Fathers Name: | | NO IMAGE |

| Age: | | Sex: | ○ Male   ○ Female |

| Address: | | DOB: | 14 ⌄ | 12 ⌄ | 1984 ⌄ |

| | | Phone: | |

| | | Email: | |

| Hobbies: | ☐ Game   ☐ Reading   ☐ Fishing | Nation: | ⌄ |
| | ☐ Quiz   ☐ Stamp   ☐ Coin | |

Submit   Cancel

Registration Form

Registration Form

| Name: | | Fathers Name: | | NO IMAGE |

| Age: | | Sex: | ○ Male   ○ Female |

| Address: | | DOB: | 30 ⌄ | 12 ⌄ | 1984 ⌄ |

| | | Phone: | |

| | | Email: | |

| Hobbies: | ☐ Game   ☐ Reading   ☐ Fishing | Nation: | ⌄ |
| | ☐ Quiz   ☐ Stamp   ☐ Coin | |

Submit   Cancel

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