**Practical No. 4**

**Use of CardLayout to write a program to create a two-level card deck that allows the user to select an operating system.**

**Exercise 1) Write Java program to display following output.**

import java.awt.Button;

import java.awt.GridBagConstraints; import java.awt.GridBagLayout; import javax.swing.\*;

public class Practical4Q1 extends JFrame

{

public static void main(String[] args)

{

Practical4Q1 a = new Practical4Q1(); 520

}

public Practical4Q1()

{

GridBagLayout grid = new GridBagLayout(); GridBagConstraints gbc = new GridBagConstraints(); setLayout(grid);

setTitle("GridBag Layout Example"); GridBagLayout layout = new GridBagLayout(); this.setLayout(layout);

gbc.fill = GridBagConstraints.HORIZONTAL; gbc.gridx = 0;

gbc.gridy = 0;

this.add(new Button("Button One"), gbc); gbc.gridx = 1;

gbc.gridy = 0;

this.add(new Button("Button two"), gbc); gbc.fill = GridBagConstraints.HORIZONTAL;

gbc.ipady = 20;

gbc.gridx = 0;

gbc.gridy = 1;

this.add(new Button("Button Three"), gbc); gbc.gridx = 1;

gbc.gridy = 1;

this.add(new Button("Button Four"), gbc); gbc.gridx = 0;

gbc.gridy = 2;

gbc.fill = GridBagConstraints.HORIZONTAL; gbc.gridwidth = 2;

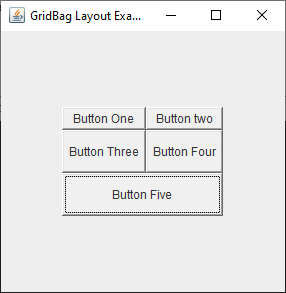
this.add(new Button("Button Five"), gbc); setSize(300, 300); setPreferredSize(getSize()); setVisible(true);

setDefaultCloseOperation(EXIT\_ON\_CLOSE);

}

}

**OUTPUT:**



**2) Write Java Program to display following output.**

import java.awt.\*; import javax.swing.\*;

public class Practical4Q2 extends JFrame

{

public static void main(String[] args)

{

Practical4Q2 a = new Practical4Q2();

}

public Practical4Q2()

{

Label l1 = new Label("Name"); Label l2 = new Label("Comments");

GridBagLayout grid = new GridBagLayout(); GridBagConstraints gbc = new GridBagConstraints(); GridBagConstraints gbc1 = new GridBagConstraints(); setLayout(grid);

setTitle("GridBagLayout in Java Example"); GridBagLayout layout = new GridBagLayout(); this.setLayout(layout);

gbc.gridx = 0;

gbc.gridy = 0; this.add(l1, gbc); gbc.gridx = 1;

gbc.gridy = 0;

this.add(new TextField(10), gbc); gbc1.gridx = 0;

gbc1.gridy = 1; this.add(l2, gbc1); gbc1.gridx = 1;

gbc1.gridy = 1;

this.add(new TextArea(5,15), gbc1); gbc1.gridx = 1;

gbc1.gridy = 2;

this.add(new Button("Submit"), gbc1); setSize(300, 300);

setVisible(true); setDefaultCloseOperation(EXIT\_ON\_CLOSE);

}

}

**OUTPUT:**

