import javax.microedition.midlet.MIDlet;

import javax.microedition.lcdui.\*;

public class BarGraphMid extends MIDlet{

private Display display;

private BarGraphCanvas bargraph;

private int dataset1[],dataset2[],maxX,maxY;

public BarGraphMid(){

display = Display.getDisplay(this);

dataset1 = new int[]{10,30,20,60,70};

dataset2 = new int[]{40,10,70,45,80};

maxX = Math.max(dataset1.length,dataset2.length)-1;

maxY = 0;

for(int i = 0; i<dataset1.length; i++)

maxY = Math.max(maxY,dataset1[i]);

for(int i = 0; i<dataset2.length; i++)

maxY = Math.max(maxY,dataset2[i]);

maxY += 10;

bargraph = new BarGraphCanvas(dataset1,dataset2,maxX,maxY);

}

public void startApp(){

display.setCurrent(bargraph);

}

public void pauseApp(){}

public void destroyApp(boolean unconditional){}

}//end of BarGraphMid class

class BarGraphCanvas extends Canvas{

private int[] dataset1,dataset2;

private int maxX,maxY,width,height,deltaX,deltaY;

public BarGraphCanvas(int[] dataset1,int[] dataset2,int maxX,int maxY){

this.dataset1 = dataset1;

this.dataset2 = dataset2;

this.maxX = maxX;

this.maxY = maxY;

}

public void paint(Graphics g){

int barwidth = 4;

width = getWidth();

height = getHeight();

deltaX = width/(maxX+1);

deltaY = height/maxY;

g.setColor(255,255,255);

g.fillRect(0,0,width,height);

g.setColor(0,0,0);

g.drawLine(0,0,0,height-1);

g.drawLine(0,height-1,width,height-1);

int j=0;

for(int i = 0; j <= maxY; i++,j+=10)

g.drawString((""+j+""),0,height-(i\*deltaY\*10+10),Graphics.TOP|Graphics.LEFT);

for(int i = 0;i < maxX+1; i++){

//g.drawString((" "+dataset1[i]+""),i\*deltaX,height-(deltaY\*dataset1[i]),Graphics.TOP|Graphics.LEFT);

g.drawString((" "+dataset1[i]+""),10+i\*deltaX,height-(deltaY\*dataset1[i]+10),Graphics.TOP|Graphics.RIGHT);

g.fillRect(10+i\*deltaX,height -deltaY\*dataset1[i],barwidth,deltaY\*dataset1[i]);

}

g.setColor(255,0,0);

for(int i = 0;i < maxX+1; i++){

g.drawString((" "+dataset2[i]+""),10+i\*deltaX+barwidth,height-(deltaY\*dataset2[i]+10),Graphics.TOP|Graphics.LEFT);

g.fillRect(10+i\*deltaX+barwidth,height -deltaY\*dataset2[i],barwidth,deltaY\*dataset2[i]);

}

}//end of paint method

}//end of GraphCanvas

//drawString() and drawSubstring() methods, which specify the characters to be drawn and

//the location of an anchor point that determines where the text will be placed.