AppendFile

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Paths;

import java.nio.file.StandardOpenOption;

public class AppendFile {

public static void main(String args[]){

String path=System.getProperty("user.dir")+"\\myfile.txt";

String text=" Sukirthan";

try {

Files.write(Paths.get(path),text.getBytes(),StandardOpenOption.APPEND);

} catch(IOException e) {

}

}

}

AppendFile2

import java.io.FileWriter;

import java.io.IOException;

public class AppendFile2 {

public static void main(String arg[]){

String path=System.getProperty("user.dir")+"\\myfile.txt";

String text="Hello Java";

try {

FileWriter fw = new FileWriter(path,true);

fw.write(text);

fw.close();

}

catch(IOException e) {

}

}

}

AppendFile3

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Paths;

import java.nio.file.StandardOpenOption;

public class AppendFile3 {

public static void main(String[] args) {

String path = System.getProperty("user.dir")+"\\myfilee.txt";

String text ="Append";

try {

Files.write(Paths.get(path),text.getBytes(),StandardOpenOption.APPEND);

}

catch(IOException e) {

}

}

}

AppendWrite

import java.io.FileWriter;

import java.io.IOException;

public class AppendWrite {

public static void main(String[] args) {

String path = System.getProperty("user.dir")+"\\myfilee.txt";

String text = "Hello java";

try {

FileWriter fw = new FileWriter(path,true);

fw.write(text);

fw.close();

}

catch(IOException e) {

}

}

}

Calculator

package pack;

public class calculator {

public int add(int a,int b){

return a+b;

}

public int subtract(int a,int b) {

return a-b;

}

public int multiply(int a,int b) {

return a\*b;

}

public int divide(int a,int b){

if(b!=0){

return a/b;

}

else {

throw new ArithmeticException("Cannot divide by Zero");

}

}

}

FCFS

import java.util.Scanner;

class Process {

int arrivalTime;

int burstTime;

}

public class FCFS {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of Processes:");

int numProcesses = scanner.nextInt();

Process[] processes = new Process[numProcesses];

for(int i=0;i<numProcesses;i++) {

System.out.println("Enter details for Process"+(i+1)+(":"));

System.out.print("Arrival Time :");

int arrivalTime = scanner.nextInt();

System.out.print("Burst Time:");

int burstTime = scanner.nextInt();

processes[i] = new Process();

processes[i].arrivalTime = arrivalTime;

processes[i].burstTime = burstTime;

}

System.out.println("\nFCFS Scheduling:");

System.out.println("Process\tArrival Time\tBurst Time");

for(int i=0;i<numProcesses;i++) {

System.out.println((i+1) + "\t\t" + processes[i].arrivalTime + "\t\t\t" + processes[i].burstTime);

}

scanner.close();

}

}

Exception

public class exc {

public static void main(String[] args)

{

try {

int data = 100/0;

}

catch(ArithmeticException e) {

System.out.println(e);

}

System.out.println("A number cannot be divided by Zero");

}

}

FirstFit

class FrtFt{

public static void main(String[] args) {

int blockSize[] = {40,80,30,120,55};

int processSize[] = {20,60,70,40};

int m = blockSize.length;

int n = processSize.length;

implementFirstFit(blockSize,m,processSize,n);

}

static void implementFirstFit(int blockSize[],int blocks,int processSize[],int processes) {

int allocate[] = new int[processes];

int occupied[] = new int[blocks];

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

{

allocate[i]=-1;

}

for(int i=0;i<blocks;i++)

{

occupied[i]=0;

}

for(int i=0;i<processes;i++)

{

for(int j=0;j<blocks;j++)

{

if(!(occupied[j]>0) && blockSize[j]>=processSize[i])

{

allocate[i]=j;

occupied[j]=1;

break;

}

}

}

System.out.println("\nProcess no.\tProcessSize\tBlock no.\n" );

for(int i=0;i<processes;i++)

{

System.out.print(i+1 + "\t\t\t" + processSize[i] + "\t\t\t");

if (allocate[i]!=-1)

System.out.println(allocate[i]+1);

else {

System.out.println("Not Allowed");

}

}

}

}

India\_Flag

import java.awt.\*;

import java.applet.\*;

public class India\_Flag extends Applet

{

public void paint(Graphics g)

{

g.setColor(Color.blue);

g.fillRect(50,20,5,300);

g.setColor(Color.black);

g.drawRect(50,18,3,300);

g.setColor(Color.orange);

g.fillRect(55,20,120,30);

g.setColor(Color.black);

g.drawRect(55,20,118,28);

g.setColor(Color.green);

g.fillRect(55,80,119,30);

g.setColor(Color.black);

g.drawRect(55,80,117,28);

g.setColor(Color.black);

g.drawOval(100,50,30,30);

}

}

/\*<applet code="India\_Flag"width="320"height="480">

</applet>\*/

ArithmeticException

class Main {

public static void main(String[] args) {

try {

int divideByZero=50/0;

System.out.println("Rest of code in try block");

}

catch(ArithmeticException e) {

System.out.println("Arithmetic Exception => " +e.getMessage());

}

}

}

MouseEvent

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

public class Mouse\_Event implements MouseListener,ActionListener {

static JFrame frame;

static JTextField text;

public static void main(String[] args) {

frame = new JFrame("Mouse Event");

frame.setBackground(Color.white);

frame.setSize(500,500);

frame.setLayout(null);

text = new JTextField();

text.setBounds(0,0,500,50);

frame.add(text);

JButton exit = new JButton("Exit");

exit.setBounds(220,235,60,30);

frame.add(exit);

Mouse\_Event obj = new Mouse\_Event();

frame.addMouseListener(obj);

exit.addActionListener(obj);

frame.setVisible(true);

}

public void actionPerformed(ActionEvent e)

{

frame.dispose();

}

public void mouseEntered(MouseEvent e) {

text.setText("");

text.setText("Mouse Entered the frame from point");

text.setText(text.getText()+e.getX()+""+e.getY());

}

public void mouseExited(MouseEvent e) {

text.setText("");

text.setText("Mouse Exited the frame from point");

text.setText(text.getText()+e.getX()+""+e.getY());

}

public void mouseReleased(MouseEvent e) {

text.setText("");

String button = "Right";

if(e.getButton()==MouseEvent.BUTTON1)

button="Left";

text.setText(button+"Button released at point");

text.setText(text.getText()+e.getX()+""+e.getY());

}

public void mousePressed(MouseEvent e) {

text.setText("");

String button = "Right";

if(e.getButton()==MouseEvent.BUTTON1)

button="Left";

text.setText(button+"Button Pressed at point");

text.setText(text.getText()+e.getX()+""+e.getY());

}

public void mouseClicked(MouseEvent e) {

text.setText("");

String button="Right";

if(e.getButton()==MouseEvent.BUTTON1)

button="Left";

text.setText(button+"Button Clickedd at point");

text.setText(text.getText()+e.getX()+""+e.getY());

}

}

SingleThread

class Multi extends Thread {

public void run() {

System.out.println("Thread is Running");

}

public static void main(String args[]) {

Multi t1 = new Multi();

t1.start();

}

}

Program1

class Employee {

int bsalary = 20000;

void Basic\_Salary()

{

System.out.println("Basic Salary is " + bsalary);

}

}

class Programmer extends Employee{

int increment = 10000;

int current\_salary = bsalary + increment;

void Print\_Salary() {

System.out.println("Programmer Salary is " + current\_salary);

}

},

class myclass {

public static void main(String args[]) {

Programmer pr1 = new Programmer();

pr1.Basic\_Salary();

pr1.Print\_Salary();

}

}

MyFirstApplet

import java.applet.Applet;

import java.awt.\*;

public class MyFirstApplet extends Applet

{

public void paint(Graphics g)

{

g.drawString("Hello World of Java!",25,25);

g.drawString("This is my first webpage using applets!!",50,100);

}

}

Pac1

import java.lang.\*;

class pac1 {

public static void main(String[] args) {

int a = 100,b =200,result;

result = Math.max(a,b);

System.out.println("Maximum is = "+ result);

}

}

Package Example

package pack;

public class calculator

{

public int add(int a,int b)

{

return a+b;

}

public int subtract(int a,int b)

{

return a-b;

}

public int multiply(int a,int b)

{

return a\*b;

}

public int divide(int a,int b)

{

if(b!=0)

{

return a/b;

}

else

{

throw new arithemetic exception("cannot divide by zero!");

}}}

import pack.Calculator;

public class PackageExample {

public static void main(String[] args) {

Calculator calculator = new Calculator();

int result = calculator.add(5,3);

System.out.println("Addition: "+ result);

result = calculator.subtract(5,3);

System.out.println("Subtraction: " + result);

result = calculator.multiply(5,3);

System.out.println("Multiplication: " + result);

result = calculator.divide(10,2);

System.out.println("Division: " +result);

}

}

Registration

// Java program to implement

// a Simple Registration Form

// using Java Swing

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

class MyFrame extends JFrame implements ActionListener {

// Components of the Form

private Container c;

private JLabel title;

private JLabel name;

private JTextField tname;

private JLabel mno;

private JTextField tmno;

private JLabel gender;

private JRadioButton male;

private JRadioButton female;

private ButtonGroup gengp;

private JLabel dob;

private JComboBox date;

private JComboBox month;

private JComboBox year;

private JLabel add;

private JTextArea tadd;

private JCheckBox term;

private JButton sub;

private JButton reset;

private JTextArea tout;

private JLabel res;

private JTextArea resadd;

private String dates[]

= { "1", "2", "3", "4", "5",

"6", "7", "8", "9", "10",

"11", "12", "13", "14", "15",

"16", "17", "18", "19", "20",

"21", "22", "23", "24", "25",

"26", "27", "28", "29", "30",

"31" };

private String months[]

= { "Jan", "feb", "Mar", "Apr",

"May", "Jun", "July", "Aug",

"Sep", "Oct", "Nov", "Dec" };

private String years[]

= { "1995", "1996", "1997", "1998",

"1999", "2000", "2001", "2002",

"2003", "2004", "2005", "2006",

"2007", "2008", "2009", "2010",

"2011", "2012", "2013", "2014",

"2015", "2016", "2017", "2018",

"2019" };

// constructor, to initialize the components

// with default values.

public MyFrame()

{

setTitle("Registration Form");

setBounds(300, 90, 900, 600);

setDefaultCloseOperation(EXIT\_ON\_CLOSE);

setResizable(false);

c = getContentPane();

c.setLayout(null);

title = new JLabel("Registration Form");

title.setFont(new Font("Arial", Font.PLAIN, 30));

title.setSize(300, 30);

title.setLocation(300, 30);

c.add(title);

name = new JLabel("Name");

name.setFont(new Font("Arial", Font.PLAIN, 20));

name.setSize(100, 20);

name.setLocation(100, 100);

c.add(name);

tname = new JTextField();

tname.setFont(new Font("Arial", Font.PLAIN, 15));

tname.setSize(190, 20);

tname.setLocation(200, 100);

c.add(tname);

mno = new JLabel("Mobile");

mno.setFont(new Font("Arial", Font.PLAIN, 20));

mno.setSize(100, 20);

mno.setLocation(100, 150);

c.add(mno);

tmno = new JTextField();

tmno.setFont(new Font("Arial", Font.PLAIN, 15));

tmno.setSize(150, 20);

tmno.setLocation(200, 150);

c.add(tmno);

gender = new JLabel("Gender");

gender.setFont(new Font("Arial", Font.PLAIN, 20));

gender.setSize(100, 20);

gender.setLocation(100, 200);

c.add(gender);

male = new JRadioButton("Male");

male.setFont(new Font("Arial", Font.PLAIN, 15));

male.setSelected(true);

male.setSize(75, 20);

male.setLocation(200, 200);

c.add(male);

female = new JRadioButton("Female");

female.setFont(new Font("Arial", Font.PLAIN, 15));

female.setSelected(false);

female.setSize(80, 20);

female.setLocation(275, 200);

c.add(female);

gengp = new ButtonGroup();

gengp.add(male);

gengp.add(female);

dob = new JLabel("DOB");

dob.setFont(new Font("Arial", Font.PLAIN, 20));

dob.setSize(100, 20);

dob.setLocation(100, 250);

c.add(dob);

date = new JComboBox(dates);

date.setFont(new Font("Arial", Font.PLAIN, 15));

date.setSize(50, 20);

date.setLocation(200, 250);

c.add(date);

month = new JComboBox(months);

month.setFont(new Font("Arial", Font.PLAIN, 15));

month.setSize(60, 20);

month.setLocation(250, 250);

c.add(month);

year = new JComboBox(years);

year.setFont(new Font("Arial", Font.PLAIN, 15));

year.setSize(60, 20);

year.setLocation(320, 250);

c.add(year);

add = new JLabel("Address");

add.setFont(new Font("Arial", Font.PLAIN, 20));

add.setSize(100, 20);

add.setLocation(100, 300);

c.add(add);

tadd = new JTextArea();

tadd.setFont(new Font("Arial", Font.PLAIN, 15));

tadd.setSize(200, 75);

tadd.setLocation(200, 300);

tadd.setLineWrap(true);

c.add(tadd);

term = new JCheckBox("Accept Terms And Conditions.");

term.setFont(new Font("Arial", Font.PLAIN, 15));

term.setSize(250, 20);

term.setLocation(150, 400);

c.add(term);

sub = new JButton("Submit");

sub.setFont(new Font("Arial", Font.PLAIN, 15));

sub.setSize(100, 20);

sub.setLocation(150, 450);

sub.addActionListener(this);

c.add(sub);

reset = new JButton("Reset");

reset.setFont(new Font("Arial", Font.PLAIN, 15));

reset.setSize(100, 20);

reset.setLocation(270, 450);

reset.addActionListener(this);

c.add(reset);

tout = new JTextArea();

tout.setFont(new Font("Arial", Font.PLAIN, 15));

tout.setSize(300, 400);

tout.setLocation(500, 100);

tout.setLineWrap(true);

tout.setEditable(false);

c.add(tout);

res = new JLabel("");

res.setFont(new Font("Arial", Font.PLAIN, 20));

res.setSize(500, 25);

res.setLocation(100, 500);

c.add(res);

resadd = new JTextArea();

resadd.setFont(new Font("Arial", Font.PLAIN, 15));

resadd.setSize(200, 75);

resadd.setLocation(580, 175);

resadd.setLineWrap(true);

c.add(resadd);

setVisible(true);

}

// method actionPerformed()

// to get the action performed

// by the user and act accordingly

public void actionPerformed(ActionEvent e)

{

if (e.getSource() == sub) {

if (term.isSelected()) {

String data1;

String data

= "Name : "

+ tname.getText() + "\n"

+ "Mobile : "

+ tmno.getText() + "\n";

if (male.isSelected())

data1 = "Gender : Male"

+ "\n";

else

data1 = "Gender : Female"

+ "\n";

String data2

= "DOB : "

+ (String)date.getSelectedItem()

+ "/" + (String)month.getSelectedItem()

+ "/" + (String)year.getSelectedItem()

+ "\n";

String data3 = "Address : " + tadd.getText();

tout.setText(data + data1 + data2 + data3);

tout.setEditable(false);

res.setText("Registration Successfully..");

}

else {

tout.setText("");

resadd.setText("");

res.setText("Please accept the"

+ " terms & conditions..");

}

}

else if (e.getSource() == reset) {

String def = "";

tname.setText(def);

tadd.setText(def);

tmno.setText(def);

res.setText(def);

tout.setText(def);

term.setSelected(false);

date.setSelectedIndex(0);

month.setSelectedIndex(0);

year.setSelectedIndex(0);

resadd.setText(def);

}

}

}

class Registration {

public static void main(String[] args) throws Exception

{

MyFrame f = new MyFrame();

}

}

InterFace

interface Shapes {

void draw();

}

class Rectangle implements Shapes {

public void draw() {

System.out.println("This is a Rectangle");

}

}

class Circle implements Shapes {

public void draw() {

System.out.println("This is a Circle");

}

}

class TestClass {

public static void main(String args[]) {

Shapes s1=new Rectangle();

s1.draw();

Shapes s2=new Circle();

s2.draw();

}

}

ThreadExample

public class ThreadExample extends Thread {

public void run() {

int a= 10;

int b= 12;

int result=a+b;

System.out.println("Thread is running");

System.out.println("the sum is:"+result);

}

public static void main(String args[]){

ThreadExample t1 = new ThreadExample();

t1.start();

}

}

ThreadPriortize

import java.lang.\*;

public class Threadexe extends Thread {

public void run() {

System.out.println("inside the run method");

}

public static void main(String args[]){

Threadexe t1 = new Threadexe();

Threadexe t2 = new Threadexe();

Threadexe t3 = new Threadexe();

System.out.println("Priority of thread 1 is :"+t1.getPriority());

System.out.println("Priority of thread 2 is :"+t2.getPriority());

System.out.println("Priority of thread 3 is :"+t3.getPriority());

t1.setPriority(6);

t2.setPriority(3);

t3.setPriority(9);

System.out.println("Priority of thread 1 is :"+t1.getPriority());

System.out.println("Priority of thread 2 is :"+t2.getPriority());

System.out.println("Priority of thread 3 is :"+t3.getPriority());

System.out.println("Currently executing the thread:"+Thread.currentThread().getName());

System.out.println("Priority of the main thread:"+Thread.currentThread().getPriority());

Thread.currentThread().setPriority(10);

System.out.println("Priority of the main thread:"+Thread.currentThread().getPriority());

}

}