Road Traffic Accident Prediction Model GUI code

import org.neuroph.core.NeuralNetwork;

public class advanced\_model extends javax.swing.JFrame {

**/\*………………. INPUTS……………………………………………………………………….\*/**

int exp,semexp,unexp,sl\_exp=0;

int no\_issue,has\_issue,sl\_med=0;

int well,fair,poor,sl\_eco=0;

int enough\_rest,medium\_rest,no\_rest,sl\_workload=0;

int never\_arrest,few\_arrest,many\_arrest,sl\_crm=0;

int manul,auto,semi\_auto,sl\_techno=0;

int below5,five\_ten,above\_10,sl\_manf=0;

int private\_car,psv\_car,heavy\_car,sl\_usage=0;

int consistence\_serv,inconsistence\_serv,unserviced\_at\_all,sl\_service=0;

int zero,low,excess,sl\_drink=0;

int zero\_dr,low\_dr,addiction\_dr,sl\_drug=0;

int no\_stress,has\_stress,sl\_psychology=0;

int no\_use,occassion\_use,over\_use,sl\_mobile=0;

int normal,narrow,broad,sl\_roadsize=0;

int stretch,curved,blind,steep,sl\_roadlayout=0;

int full,partial,no\_mark,sl\_roadmarks=0;

int normal\_rain,heavy,flood,sl\_rainfall=0;

int normal\_speed,high\_speed,abnormal\_speed,sl\_speed=0;

int normal\_load,overloading,abnormal\_load,sl\_loading=0;

int fit,unfit,sl\_safety=0;

int safe,unsafe,sl\_overtaking=0;

int no\_check,medium\_check,excess\_check,sl\_police=0;

double safe\_journey,minor\_accident,severe\_accident,fatal\_accident,write\_off\_accident=0;

double[] outcome;

/\*…………………………………………………………………………………………………………..\*/

private void EX\_SLIDERMouseClicked(java.awt.event.MouseEvent evt) {

sl\_exp=EX\_SLIDER.getValue();

screen.setText(Integer.toString(sl\_exp));

if(sl\_exp==0){

screen.setText(" ");

screen.setText("EXPERIENCED DRIVER");

exp=1;

semexp=0;

unexp=0;

data.setText(" ");

data.setText(Integer.toString(exp)+" "+Integer.toString(semexp)+" "+Integer.toString(unexp));

}

else if(sl\_exp==1){

screen.setText(" ");

screen.setText("SEMI EXPERIENCED DRIVER");

exp=0;

semexp=1;

unexp=0;

data.setText(" ");

data.setText(Integer.toString(exp)+" "+Integer.toString(semexp)+" "+Integer.toString(unexp));

}

else if(sl\_exp==2){

screen.setText(" ");

screen.setText("UN EXPERIENCED DRIVER");

exp=0;

semexp=0;

unexp=1;

data.setText(" ");

data.setText(Integer.toString(exp)+" "+Integer.toString(semexp)+" "+Integer.toString(unexp));

}

}

private void medicalMouseClicked(java.awt.event.MouseEvent evt) {

sl\_med=medical.getValue();

if(sl\_med==0){

screen.setText(" ");

screen.setText("DRIVER HAS NO HEALTH ISSUE");

//screen.setText(Integer.toString(sl\_med));

no\_issue=1;

has\_issue=0;

data.setText(" ");

data.setText(Integer.toString(no\_issue)+" "+Integer.toString(has\_issue));

}

else if(sl\_med==1){

screen.setText(" ");

screen.setText("DRIVER HAS HEALTH ISSUE");

no\_issue=0;

has\_issue=1;

data.setText(" ");

data.setText(Integer.toString(no\_issue)+" "+Integer.toString(has\_issue));

}

}

private void ecoslideMouseClicked(java.awt.event.MouseEvent evt) {

sl\_eco=ecoslide.getValue();

if(sl\_eco==0){

screen.setText(" ");

screen.setText("WELL PAID DRIVER");

well=1;

fair=0;

poor=0;

data.setText(" ");

data.setText(Integer.toString(well)+" "+Integer.toString(fair)+" "+Integer.toString(poor));

}

else if(sl\_eco==1){

screen.setText(" ");

screen.setText("FAIRLY PAID DRIVER");

well=0;

fair=1;

poor=0;

data.setText(" ");

data.setText(Integer.toString(well)+" "+Integer.toString(fair)+" "+Integer.toString(poor));

}

else if(sl\_eco==2){

screen.setText(" ");

screen.setText("POORLY PAID DRIVER");

well=0;

fair=0;

poor=1;

data.setText(" ");

data.setText(Integer.toString(well)+" "+Integer.toString(fair)+" "+Integer.toString(poor));

}

}

private void workloadMouseClicked(java.awt.event.MouseEvent evt) {

sl\_workload=workload.getValue();

// enough\_rest,medium\_rest,no\_rest,sl\_workload;

if(sl\_workload==0){

screen.setText(" ");

screen.setText("DRIVER HAS ENOUGH REST");

enough\_rest=1;

medium\_rest=0;

no\_rest=0;

data.setText(" ");

data.setText(Integer.toString(enough\_rest)+" "+Integer.toString(medium\_rest)+" "+Integer.toString(no\_rest));

}

else if(sl\_workload==1){

screen.setText(" ");

screen.setText("DRIVER HAS MEDIUM REST");

enough\_rest=0;

medium\_rest=1;

no\_rest=0;

data.setText(" ");

data.setText(Integer.toString(enough\_rest)+" "+Integer.toString(medium\_rest)+" "+Integer.toString(no\_rest));

}

else if(sl\_workload==2){

screen.setText(" ");

screen.setText("DRIVER HAS NO REST");

enough\_rest=0;

medium\_rest=0;

no\_rest=1;

data.setText(" ");

data.setText(Integer.toString(enough\_rest)+" "+Integer.toString(medium\_rest)+" "+Integer.toString(no\_rest));

}

}

private void crimeMouseClicked(java.awt.event.MouseEvent evt) {

sl\_crm=crime.getValue();

// never\_arrest,few\_arrest,many\_arrest,sl\_crm;

if(sl\_crm==0){

screen.setText(" ");

screen.setText("DRIVER NEVER ARRESTED");

never\_arrest=1;

few\_arrest=0;

many\_arrest=0;

data.setText(" ");

data.setText(Integer.toString(never\_arrest)+" "+Integer.toString(few\_arrest)+" "+Integer.toString(many\_arrest));

}

else if(sl\_crm==1){

screen.setText(" ");

screen.setText("DRIVER HAS FEW ARRESTS");

never\_arrest=0;

few\_arrest=1;

many\_arrest=0;

data.setText(" ");

data.setText(Integer.toString(never\_arrest)+" "+Integer.toString(few\_arrest)+" "+Integer.toString(many\_arrest));

}

else if(sl\_crm==2){

screen.setText(" ");

screen.setText("DRIVER HAS MANY ARRESTS");

never\_arrest=0;

few\_arrest=0;

many\_arrest=1;

data.setText(" ");

data.setText(Integer.toString(never\_arrest)+" "+Integer.toString(few\_arrest)+" "+Integer.toString(many\_arrest));

}

}

private void technolMouseClicked(java.awt.event.MouseEvent evt) {

sl\_techno=technol.getValue();

//manul,auto,semi\_auto,sl\_techno;

if(sl\_techno==0){

screen.setText(" ");

screen.setText("MANUAL VEHICLE");

manul=1;

auto=0;

semi\_auto=0;

data.setText(" ");

data.setText(Integer.toString(manul)+" "+Integer.toString(auto)+" "+Integer.toString(semi\_auto));

}

else if(sl\_techno==1){

screen.setText(" ");

screen.setText("AUTOMATIC VEHICLE");

manul=0;

auto=1;

semi\_auto=0;

data.setText(" ");

data.setText(Integer.toString(manul)+" "+Integer.toString(auto)+" "+Integer.toString(semi\_auto));

}

else if(sl\_techno==2){

screen.setText(" ");

screen.setText("SEMI AUTOMATIC VEHICLE");

manul=0;

auto=0;

semi\_auto=1;

data.setText(" ");

data.setText(Integer.toString(manul)+" "+Integer.toString(auto)+" "+Integer.toString(semi\_auto));

}

}

private void manufacturedMouseClicked(java.awt.event.MouseEvent evt) {

sl\_manf=manufactured.getValue();

// below5,five\_ten,above\_10,sl\_manf;

if(sl\_manf==0){

screen.setText(" ");

screen.setText("VEHICLE BELOW 5 YEARS OLD");

below5=1;

five\_ten=0;

above\_10=0;

data.setText(" ");

data.setText(Integer.toString( below5)+" "+Integer.toString(five\_ten)+" "+Integer.toString(above\_10));

}

else if(sl\_manf==1){

screen.setText(" ");

screen.setText("VEHICLE BETWEEN \n"+" 5 AND 10 YEARS OLD");

below5=0;

five\_ten=1;

above\_10=0;

data.setText(" ");

data.setText(Integer.toString( below5)+" "+Integer.toString(five\_ten)+" "+Integer.toString(above\_10));

}

else if(sl\_manf==2){

screen.setText(" ");

screen.setText("VEHICLE IS OVER 10 YEARS OLD");

below5=0;

five\_ten=0;

above\_10=1;

data.setText(" ");

data.setText(Integer.toString( below5)+" "+Integer.toString(five\_ten)+" "+Integer.toString(above\_10));

}

}

private void usagesMouseClicked(java.awt.event.MouseEvent evt) {

sl\_usage=usages.getValue();

//private\_car,psv\_car,heavy\_car,sl\_usage;

if(sl\_usage==0){

screen.setText(" ");

screen.setText("PRIVATE VEHICLE ");

private\_car=1;

psv\_car=0;

heavy\_car=0;

data.setText(" ");

data.setText(Integer.toString( private\_car)+" "+Integer.toString(psv\_car)+" "+Integer.toString(heavy\_car));

}

else if(sl\_usage==1){

screen.setText(" ");

screen.setText("PSV VEHICLE");

private\_car=0;

psv\_car=1;

heavy\_car=0;

data.setText(" ");

data.setText(Integer.toString( private\_car)+" "+Integer.toString(psv\_car)+" "+Integer.toString(heavy\_car));

}

else if(sl\_usage==2){

screen.setText(" ");

screen.setText("HEAVY TRUCK VEHICLE");

private\_car=0;

psv\_car=0;

heavy\_car=1;

data.setText(" ");

data.setText(Integer.toString( private\_car)+" "+Integer.toString(psv\_car)+" "+Integer.toString(heavy\_car));

}

}

private void servicesMouseClicked(java.awt.event.MouseEvent evt) {

sl\_service=services.getValue();

//consistence\_serv,inconsistence\_serv,unserviced\_at\_all,sl\_service;

if(sl\_service==0){

screen.setText(" ");

screen.setText("VEHICLE CONSISTENCE SERVICE ");

consistence\_serv=1;

inconsistence\_serv=0;

unserviced\_at\_all=0;

data.setText(" ");

data.setText(Integer.toString(consistence\_serv)+" "+Integer.toString(inconsistence\_serv)+" "+Integer.toString(unserviced\_at\_all));

}

else if(sl\_service==1){

screen.setText(" ");

screen.setText("VEHICLE INCONSISTENCE SERVICE");

consistence\_serv=0;

inconsistence\_serv=1;

unserviced\_at\_all=0;

data.setText(" ");

data.setText(Integer.toString(consistence\_serv)+" "+Integer.toString(inconsistence\_serv)+" "+Integer.toString(unserviced\_at\_all));

}

else if(sl\_service==2){

screen.setText(" ");

screen.setText("UNSERVICED VEHICLE AT ALL");

consistence\_serv=0;

inconsistence\_serv=0;

unserviced\_at\_all=1;

data.setText(" ");

data.setText(Integer.toString(consistence\_serv)+" "+Integer.toString(inconsistence\_serv)+" "+Integer.toString(unserviced\_at\_all));

}

}

private void drunkMouseClicked(java.awt.event.MouseEvent evt) {

sl\_drink=drunk.getValue();

// int zero,low,excess,sl\_drink;

if(sl\_drink==0){

screen.setText(" ");

screen.setText("ZERO ALCOHOL LEVEL ");

zero=1;

low=0;

excess=0;

data.setText(" ");

data.setText(Integer.toString(zero)+" "+Integer.toString(low)+" "+Integer.toString(excess));

}

else if(sl\_drink==1){

screen.setText(" ");

screen.setText("LOW ALCOHOL LEVEL");

zero=0;

low=1;

excess=0;

data.setText(" ");

data.setText(Integer.toString(zero)+" "+Integer.toString(low)+" "+Integer.toString(excess));

}

else if(sl\_drink==2){

screen.setText(" ");

screen.setText("EXCESS ALCOHOL LEVEL");

zero=0;

low=0;

excess=1;

data.setText(" ");

data.setText(Integer.toString(zero)+" "+Integer.toString(low)+" "+Integer.toString(excess));

}

}

private void DRUGMouseClicked(java.awt.event.MouseEvent evt) {

sl\_drug=DRUG.getValue();

//zero\_dr,low\_dr,addiction\_dr,sl\_drug;

if(sl\_drug==0){

screen.setText(" ");

screen.setText("ZERO DRUG INFLUENCE ");

zero\_dr=1;

low\_dr=0;

addiction\_dr=0;

data.setText(" ");

data.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

else if(sl\_drug==1){

screen.setText(" ");

screen.setText("LOW DRUG INFLUENCE");

zero\_dr=0;

low\_dr=1;

addiction\_dr=0;

data.setText(" ");

data.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

else if(sl\_drug==2){

screen.setText(" ");

screen.setText("STRONG DRUG ADDICTION");

zero\_dr=0;

low\_dr=0;

addiction\_dr=1;

data.setText(" ");

data.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

}

private void psychologyMouseClicked(java.awt.event.MouseEvent evt) {

sl\_psychology=psychology.getValue();

//no\_stress,has\_stress,sl\_psychology;

if(sl\_psychology==0){

screen.setText(" ");

screen.setText("DRIVER WITH NO STRESS ");

no\_stress=1;

has\_stress=0;

data.setText(" ");

data.setText(Integer.toString(no\_stress)+" "+Integer.toString(has\_stress));

}

else if(sl\_psychology==1){

screen.setText(" ");

screen.setText("DRIVER WITH STRESS");

no\_stress=0;

has\_stress=1;

data.setText(" ");

data.setText(Integer.toString(no\_stress)+" "+Integer.toString(has\_stress));

}

}

private void mobileMouseClicked(java.awt.event.MouseEvent evt) {

sl\_mobile=mobile.getValue();

//no\_use,occassion\_use,over\_use,sl\_mobile;

if(sl\_mobile==0){

screen.setText(" ");

screen.setText("NO USE OF PHONE WHILE DRIVING ");

no\_use=1;

occassion\_use=0;

over\_use=0;

data.setText(" ");

data.setText(Integer.toString(no\_use)+" "+Integer.toString(occassion\_use)+" "+Integer.toString(over\_use));

}

else if(sl\_mobile==1){

screen.setText(" ");

screen.setText("OCCASSIONAL USE OF PHONE WHILE DRIVING");

no\_use=0;

occassion\_use=1;

over\_use=0;

data.setText(" ");

data.setText(Integer.toString(no\_use)+" "+Integer.toString(occassion\_use)+" "+Integer.toString(over\_use));

}

else if(sl\_mobile==2){

screen.setText(" ");

screen.setText("OVER USE OF PHONE WHILE DRIVING");

no\_use=0;

occassion\_use=0;

over\_use=1;

data.setText(" ");

data.setText(Integer.toString(no\_use)+" "+Integer.toString(occassion\_use)+" "+Integer.toString(over\_use));

}

}

private void roadsizeMouseClicked(java.awt.event.MouseEvent evt) {

sl\_roadsize=roadsize.getValue();

//normal,narrow,broad,sl\_roadsize;

if(sl\_roadsize==0){

screen.setText(" ");

screen.setText("NORMAL ROAD SIZE ");

normal=1;

narrow=0;

broad=0;

data.setText(" ");

data.setText(Integer.toString(normal)+" "+Integer.toString(narrow)+" "+Integer.toString(broad));

}

else if(sl\_roadsize==1){

screen.setText(" ");

screen.setText("NARROW ROAD SIZE");

normal=0;

narrow=1;

broad=0;

data.setText(" ");

data.setText(Integer.toString(normal)+" "+Integer.toString(narrow)+" "+Integer.toString(broad));

}

else if(sl\_roadsize==2){

screen.setText(" ");

screen.setText("BROAD ROAD SIZE");

normal=0;

narrow=0;

broad=1;

data.setText(" ");

data.setText(Integer.toString(normal)+" "+Integer.toString(narrow)+" "+Integer.toString(broad));

}

}

private void roadlayoutMouseClicked(java.awt.event.MouseEvent evt) {

sl\_roadlayout=roadlayout.getValue();

//stretch,curved,blind,steep,sl\_roadlayout;

if(sl\_roadlayout==0){

screen.setText(" ");

screen.setText("STRETCHED ROAD ");

stretch=1;

curved=0;

blind=0;

steep=0;

data.setText(" ");

data.setText(Integer.toString(stretch)+" "+Integer.toString(curved)+" "+Integer.toString(blind)+" "+Integer.toString(steep));

}

else if(sl\_roadlayout==1){

screen.setText(" ");

screen.setText("CURVED ROAD");

stretch=0;

curved=1;

blind=0;

steep=0;

data.setText(" ");

data.setText(Integer.toString(stretch)+" "+Integer.toString(curved)+" "+Integer.toString(blind)+" "+Integer.toString(steep));

}

else if(sl\_roadlayout==2){

screen.setText(" ");

screen.setText("BLIND CORNER");

stretch=0;

curved=0;

blind=1;

steep=0;

data.setText(" ");

data.setText(Integer.toString(stretch)+" "+Integer.toString(curved)+" "+Integer.toString(blind)+" "+Integer.toString(steep));

}

else if(sl\_roadlayout==3){

screen.setText(" ");

screen.setText("STEEP/HILLY ROAD");

stretch=0;

curved=0;

blind=0;

steep=1;

data.setText(" ");

data.setText(Integer.toString(stretch)+" "+Integer.toString(curved)+" "+Integer.toString(blind)+" "+Integer.toString(steep));

}

}

private void roadmarksMouseClicked(java.awt.event.MouseEvent evt) {

sl\_roadmarks=roadmarks.getValue();

//full,partial,no\_mark,sl\_roadmarks;

if(sl\_roadmarks==0){

screen.setText(" ");

screen.setText("FULLY MARKED ROAD ");

full=1;

partial=0;

no\_mark=0;

data.setText(" ");

data.setText(Integer.toString(full)+" "+Integer.toString(partial)+" "+Integer.toString(no\_mark));

}

else if(sl\_roadmarks==1){

screen.setText(" ");

screen.setText("PARTIAL MARKING ON ROAD");

full=0;

partial=1;

no\_mark=0;

data.setText(" ");

data.setText(Integer.toString(full)+" "+Integer.toString(partial)+" "+Integer.toString(no\_mark));

}

else if(sl\_roadmarks==2){

screen.setText(" ");

screen.setText("NO MARKING ON ROAD");

full=0;

partial=0;

no\_mark=1;

data.setText(" ");

data.setText(Integer.toString(full)+" "+Integer.toString(partial)+" "+Integer.toString(no\_mark));

}

}

private void rainfallMouseClicked(java.awt.event.MouseEvent evt) {

sl\_rainfall=rainfall.getValue();

//normal\_rain,heavy,flood,sl\_rainfall;

if(sl\_rainfall==0){

screen.setText(" ");

screen.setText("NORMAL RAINFALL ");

normal\_rain=1;

heavy=0;

flood=0;

data.setText(" ");

data.setText(Integer.toString(normal\_rain)+" "+Integer.toString(heavy)+" "+Integer.toString(flood));

}

else if(sl\_rainfall==1){

screen.setText(" ");

screen.setText("HEAVY RAINFALL");

normal\_rain=0;

heavy=1;

flood=0;

data.setText(" ");

data.setText(Integer.toString(normal\_rain)+" "+Integer.toString(heavy)+" "+Integer.toString(flood));

}

else if(sl\_rainfall==2){

screen.setText(" ");

screen.setText("FLOOD RAIN");

normal\_rain=0;

heavy=0;

flood=1;

data.setText(" ");

data.setText(Integer.toString(normal\_rain)+" "+Integer.toString(heavy)+" "+Integer.toString(flood));

}

}

private void speedMouseClicked(java.awt.event.MouseEvent evt) {

sl\_speed= speed.getValue();

//normal\_speed,high\_speed,abnormal\_speed,sl\_speed;

if(sl\_speed==0){

screen.setText(" ");

screen.setText("NORMAL SPEED ");

normal\_speed=1;

high\_speed=0;

abnormal\_speed=0;

data.setText(" ");

data.setText(Integer.toString(normal\_speed)+" "+Integer.toString(high\_speed)+" "+Integer.toString(abnormal\_speed));

}

else if(sl\_speed==1){

screen.setText(" ");

screen.setText("HIGH SPEED");

normal\_speed=0;

high\_speed=1;

abnormal\_speed=0;

data.setText(" ");

data.setText(Integer.toString(normal\_speed)+" "+Integer.toString(high\_speed)+" "+Integer.toString(abnormal\_speed));

}

else if(sl\_speed==2){

screen.setText(" ");

screen.setText("ABNORMAL HIGH SPEED");

normal\_speed=0;

high\_speed=0;

abnormal\_speed=1;

data.setText(" ");

data.setText(Integer.toString(normal\_speed)+" "+Integer.toString(high\_speed)+" "+Integer.toString(abnormal\_speed));

}

}

private void loadingMouseClicked(java.awt.event.MouseEvent evt) {

sl\_loading=loading.getValue();

//normal\_load,overloading,abnormal\_load,sl\_loading;

if(sl\_loading==0){

screen.setText(" ");

screen.setText("NORMAL LOADING ");

normal\_load=1;

overloading=0;

abnormal\_load=0;

data.setText(" ");

data.setText(Integer.toString(normal\_load)+" "+Integer.toString(overloading)+" "+Integer.toString(abnormal\_load));

}

else if(sl\_loading==1){

screen.setText(" ");

screen.setText("OVER LOADING");

normal\_load=0;

overloading=1;

abnormal\_load=0;

data.setText(" ");

data.setText(Integer.toString(normal\_load)+" "+Integer.toString(overloading)+" "+Integer.toString(abnormal\_load));

}

else if(sl\_loading==2){

screen.setText(" ");

screen.setText("ABNORMAL OVER LOADING");

normal\_load=0;

overloading=0;

abnormal\_load=1;

data.setText(" ");

data.setText(Integer.toString(normal\_load)+" "+Integer.toString(overloading)+" "+Integer.toString(abnormal\_load));

}

}

private void safetyMouseClicked(java.awt.event.MouseEvent evt) {

sl\_safety=safety.getValue();

//fit,unfit,sl\_safety;

if(sl\_safety==0){

screen.setText(" ");

screen.setText("FITTED SAFETY BELT ");

fit=1;

unfit=0;

data.setText(" ");

data.setText(Integer.toString(fit)+" "+Integer.toString(unfit));

}

else if(sl\_safety==1){

screen.setText(" ");

screen.setText("UNFITTED SAFETY BELT");

fit=0;

unfit=1;

data.setText(" ");

data.setText(Integer.toString(fit)+" "+Integer.toString(unfit));

}

}

private void overtakingMouseClicked(java.awt.event.MouseEvent evt) {

sl\_overtaking=overtaking.getValue();

//safe,unsafe,sl\_overtaking;

if(sl\_overtaking==0){

screen.setText(" ");

screen.setText("SAFE OVERTAKING ");

safe=1;

unsafe=0;

data.setText(" ");

data.setText(Integer.toString(safe)+" "+Integer.toString(unsafe));

}

else if(sl\_overtaking==1){

screen.setText(" ");

screen.setText("UNSAFE OVERTAKING");

safe=0;

unsafe=1;

data.setText(" ");

data.setText(Integer.toString(safe)+" "+Integer.toString(unsafe));

}

}

private void policeMouseClicked(java.awt.event.MouseEvent evt) {

sl\_police= police.getValue();

//no\_check,medium\_check,excess\_check,sl\_police;

if(sl\_police==0){

screen.setText(" ");

screen.setText("NO POLICE CHECK ON ROAD ");

no\_check=1;

medium\_check=0;

excess\_check=0;

data.setText(" ");

data.setText(Integer.toString(no\_check)+" "+Integer.toString(medium\_check)+" "+Integer.toString(excess\_check));

}

else if(sl\_police==1){

screen.setText(" ");

screen.setText("MEDIUM POLICE CHECK ON ROAD");

no\_check=0;

medium\_check=1;

excess\_check=0;

data.setText(" ");

data.setText(Integer.toString(no\_check)+" "+Integer.toString(medium\_check)+" "+Integer.toString(excess\_check));

}

else if(sl\_police==2){

screen.setText(" ");

screen.setText("EXCESS POLICE CHECK ON ROAD");

no\_check=0;

medium\_check=0;

excess\_check=1;

data.setText(" ");

data.setText(Integer.toString(no\_check)+" "+Integer.toString(medium\_check)+" "+Integer.toString(excess\_check));

}

}

/\*…………………………………………………………………………………………………………..\*/

private void okMouseClicked(java.awt.event.MouseEvent evt) {

**/\*……..TRAINED NEURAL NETWORK LOADED INTO JAVA CODE…………\*/**

mynet=NeuralNetwork.load("modelnetwork.nnet"); mynet.setInput(exp,semexp,unexp,no\_issue,has\_issue,well,fair,poor,enough\_rest,medium\_rest,no\_rest,never\_arrest,few\_arrest,many\_arrest,manul,auto,semi\_auto,below5,five\_ten,above\_10,private\_car,psv\_car,heavy\_car,consistence\_serv,inconsistence\_serv,unserviced\_at\_all,zero,low,excess,zero\_dr,low\_dr,addiction\_dr,no\_stress,has\_stress,no\_use,occassion\_use,over\_use,normal,narrow,broad,stretch,curved,blind,steep,full,partial,no\_mark,normal\_rain,heavy,flood,normal\_speed,high\_speed,abnormal\_speed,normal\_load,overloading,abnormal\_load,fit,unfit,safe,unsafe,no\_check,medium\_check,excess\_check);

mynet.calculate();

outcomes.append("\n");

outcome=mynet.getOutput();

**/\*………………………………………….OUTPUTS……………………………………..\*/**

safe\_journey=outcome[0];

minor\_accident=outcome[1];

severe\_accident=outcome[2];

fatal\_accident=outcome[3];

write\_off\_accident=outcome[4];

//display

outcomes.append("The Journey is very Safe at "+fatal\_accident\*100+" %"+" of success"+"\n");

if(safe\_journey>0.5){

outcomes.append("The Journey is very Safe at "+safe\_journey\*100+" %"+" of success"+"\n");

}

else if(minor\_accident>0.5){

outcomes.append("The Journey can have a minor accident.Road accident is at "+minor\_accident\*100+" %"+" Likely to occur"+"\n");

}

else if(severe\_accident>0.5){

outcomes.append("The Journey can have severe accident.Road accident is at "+severe\_accident\*100+" %"+" Likely to occur and lives lost"+"\n");

}

else if(fatal\_accident>0.5){

outcomes.append("The Journey can have fatal accident.Road accident is at "+fatal\_accident\*100+" %"+" Likely to occur"+"\n");

}

else if(write\_off\_accident>0.5){

outcomes.append("The Journey can have write off accident.Road accident is at "+write\_off\_accident\*100+" %"+" Likely to occur and lives lost"+"\n");

}

}

/\*…………………………………………………………………………..…………..\*/

}

Road Traffic Safety Enhancing Model GUI Code

import org.neuroph.core.NeuralNetwork;

public class Road\_Safety extends javax.swing.JFrame {

**/\*………………………………..………….…….INPUTS………..…………………………….\*/**

int isgood,isfair,ispoor,isworse,sl\_pinside=0;

int elow,emedium,ehigh,sl\_pentertain=0;

int amany,amedium,afew,sl\_paware=0;

int atalert,atdoz,atsleep,sl\_pattention=0;

int crimemany,crimefew,crimenever,sl\_pcrime=0;

int nohealth,hashealth,sl\_phealth=0;

int movlow,movmedium,movhigh,sl\_pmovement=0;

int bodyproper,bodyimproper,sl\_bposture=0;

int frehigh,fremedium,frelow,sl\_pfrequency=0;

int alcohollow,alcoholexcess,alcoholaddictive,sl\_pdrunk=0;

int zero\_dr,low\_dr,addiction\_dr,sl\_pdrug=0;

int nomobileuse,occassionaluse,overuse,sl\_pmobile=0;

int normalload,overload,abnormalload,sl\_pload=0;

int normaltype,inflammabletype,explosivetype,sl\_plaggage=0;

int fit,unfit,sl\_pbelt=0;

double excellent\_safety,fairly\_good\_safety,poor\_safety,dangerous\_safety=0;

/\*………………………………………….………………………………………………….\*/

private void bpostureMouseClicked(java.awt.event.MouseEvent evt) {

sl\_bposture=bposture.getValue();

inform\_me.setText(Integer.toString(sl\_bposture));

if(sl\_bposture==0){

inform\_me.setText(" ");

inform\_me.setText("IMPROPER SITTING POSITION IN A VEHICLE");

bodyproper=0;

bodyimproper=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(bodyproper)+" "+Integer.toString(bodyimproper));

}

else if(sl\_bposture==1){

inform\_me.setText(" ");

inform\_me.setText("PROPER SITTING POSITION IN A VEHICLE");

bodyproper=1;

bodyimproper=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(bodyproper)+" "+Integer.toString(bodyimproper));

}

}

private void bpostureMouseDragged(java.awt.event.MouseEvent evt) {

sl\_bposture=bposture.getValue();

inform\_me.setText(Integer.toString(sl\_bposture));

if(sl\_bposture==0){

inform\_me.setText(" ");

inform\_me.setText("IMPROPER SITTING POSITION IN A VEHICLE");

bodyproper=0;

bodyimproper=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(bodyproper)+" "+Integer.toString(bodyimproper));

}

else if(sl\_bposture==1){

inform\_me.setText(" ");

inform\_me.setText("PROPER SITTING POSITION IN A VEHICLE");

bodyproper=1;

bodyimproper=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(bodyproper)+" "+Integer.toString(bodyimproper));

}

}

private void pinsideMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pinside=pinside.getValue();

inform\_me.setText(Integer.toString(sl\_pinside));

if(sl\_pinside==0){

inform\_me.setText(" ");

inform\_me.setText("WORSE MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=0;

ispoor=0;

isworse=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==1){

inform\_me.setText(" ");

inform\_me.setText("POOR MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=0;

ispoor=1;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==2){

inform\_me.setText(" ");

inform\_me.setText("FAIR MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=1;

ispoor=0;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==3){

inform\_me.setText(" ");

inform\_me.setText("PROPER MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=1;

isfair=0;

ispoor=0;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

}

private void pinsideMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pinside=pinside.getValue();

inform\_me.setText(Integer.toString(sl\_pinside));

if(sl\_pinside==0){

inform\_me.setText(" ");

inform\_me.setText("WORSE MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=0;

ispoor=0;

isworse=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==1){

inform\_me.setText(" ");

inform\_me.setText("POOR MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=0;

ispoor=1;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==2){

inform\_me.setText(" ");

inform\_me.setText("FAIR MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=1;

ispoor=0;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==3){

inform\_me.setText(" ");

inform\_me.setText("PROPER MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=1;

isfair=0;

ispoor=0;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

}

private void pentertainMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pentertain=pentertain.getValue();

inform\_me.setText(Integer.toString(sl\_pentertain));

if(sl\_pentertain==0){

inform\_me.setText(" ");

inform\_me.setText("LOW MUSIC/SCREEN SOUNDS LEVELS INSIDE VEHICLE");

elow=1;

emedium=0;

ehigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(elow)+" "+Integer.toString(emedium)+" "+Integer.toString(ehigh));

}

else if(sl\_pentertain==1){

inform\_me.setText(" ");

inform\_me.setText("HIGH MUSIC/SCREEN SOUNDS LEVELS INSIDE VEHICLE");

elow=0;

emedium=1;

ehigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(elow)+" "+Integer.toString(emedium)+" "+Integer.toString(ehigh));

}

else if(sl\_pentertain==2){

inform\_me.setText(" ");

inform\_me.setText("EXCESS HIGH MUSIC/SCREEN SOUNDS LEVELS INSIDE VEHICLE");

elow=0;

emedium=0;

ehigh=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(elow)+" "+Integer.toString(emedium)+" "+Integer.toString(ehigh));

}

}

private void pentertainMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pentertain=pentertain.getValue();

inform\_me.setText(Integer.toString(sl\_pentertain));

if(sl\_pentertain==0){

inform\_me.setText(" ");

inform\_me.setText("LOW MUSIC/SCREEN SOUNDS LEVELS INSIDE VEHICLE");

elow=1;

emedium=0;

ehigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(elow)+" "+Integer.toString(emedium)+" "+Integer.toString(ehigh));

}

else if(sl\_pentertain==1){

inform\_me.setText(" ");

inform\_me.setText("HIGH MUSIC/SCREEN SOUNDS LEVELS INSIDE VEHICLE");

elow=0;

emedium=1;

ehigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(elow)+" "+Integer.toString(emedium)+" "+Integer.toString(ehigh));

}

else if(sl\_pentertain==2){

inform\_me.setText(" ");

inform\_me.setText("EXCESS HIGH MUSIC/SCREEN SOUNDS LEVELS INSIDE VEHICLE");

elow=0;

emedium=0;

ehigh=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(elow)+" "+Integer.toString(emedium)+" "+Integer.toString(ehigh));

}

}

private void pawareMouseClicked(java.awt.event.MouseEvent evt) {

sl\_paware=paware.getValue();

inform\_me.setText(Integer.toString(sl\_paware));

if(sl\_paware==0){

inform\_me.setText(" ");

inform\_me.setText("LACKS TRAFFIC SAFETY STICKERS INSIDE VEHICLE");

amany=0;

amedium=0;

afew=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(amany)+" "+Integer.toString(amedium)+" "+Integer.toString(afew));

}

else if(sl\_paware==1){

inform\_me.setText(" ");

inform\_me.setText("FEW TRAFFIC SAFETY STICKERS INSIDE VEHICLE");

amany=0;

amedium=1;

afew=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(amany)+" "+Integer.toString(amedium)+" "+Integer.toString(afew));

}

else if(sl\_paware==2){

inform\_me.setText(" ");

inform\_me.setText("MANY TRAFFIC SAFETY STICKERS INSIDE VEHICLE");

amany=1;

amedium=0;

afew=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(amany)+" "+Integer.toString(amedium)+" "+Integer.toString(afew));

}

}

private void pawareMouseDragged(java.awt.event.MouseEvent evt) {

sl\_paware=paware.getValue();

inform\_me.setText(Integer.toString(sl\_paware));

if(sl\_paware==0){

inform\_me.setText(" ");

inform\_me.setText("LACKS TRAFFIC SAFETY STICKERS INSIDE VEHICLE");

amany=0;

amedium=0;

afew=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(amany)+" "+Integer.toString(amedium)+" "+Integer.toString(afew));

}

else if(sl\_paware==1){

inform\_me.setText(" ");

inform\_me.setText("FEW TRAFFIC SAFETY STICKERS INSIDE VEHICLE");

amany=0;

amedium=1;

afew=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(amany)+" "+Integer.toString(amedium)+" "+Integer.toString(afew));

}

else if(sl\_paware==2){

inform\_me.setText(" ");

inform\_me.setText("MANY TRAFFIC SAFETY STICKERS INSIDE VEHICLE");

amany=1;

amedium=0;

afew=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(amany)+" "+Integer.toString(amedium)+" "+Integer.toString(afew));

}

}

private void pattentionMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pattention=pattention.getValue();

inform\_me.setText(Integer.toString(sl\_pattention));

if(sl\_pattention==2){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE ALERT");

atalert=1;

atdoz=0;

atsleep=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(atalert)+" "+Integer.toString(atdoz)+" "+Integer.toString(atsleep));

}

else if(sl\_pattention==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE DOZZING");

atalert=0;

atdoz=1;

atsleep=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(atalert)+" "+Integer.toString(atdoz)+" "+Integer.toString(atsleep));

}

else if(sl\_pattention==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE SLEEPING");

atalert=0;

atdoz=0;

atsleep=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(atalert)+" "+Integer.toString(atdoz)+" "+Integer.toString(atsleep));

}

}

private void pattentionMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pattention=pattention.getValue();

inform\_me.setText(Integer.toString(sl\_pattention));

if(sl\_pattention==2){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE ALERT");

atalert=1;

atdoz=0;

atsleep=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(atalert)+" "+Integer.toString(atdoz)+" "+Integer.toString(atsleep));

}

else if(sl\_pattention==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE DOZZING");

atalert=0;

atdoz=1;

atsleep=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(atalert)+" "+Integer.toString(atdoz)+" "+Integer.toString(atsleep));

}

else if(sl\_pattention==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE SLEEPING");

atalert=0;

atdoz=0;

atsleep=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(atalert)+" "+Integer.toString(atdoz)+" "+Integer.toString(atsleep));

}

}

private void pcrimeMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pcrime=pcrime.getValue();

inform\_me.setText(Integer.toString(sl\_pcrime));

if(sl\_pcrime==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE LAW BREAKERS");

crimemany=1;

crimefew=0;

crimenever=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(crimemany)+" "+Integer.toString(crimefew)+" "+Integer.toString(crimenever));

}

else if(sl\_pcrime==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE EVER BROKEN LAW");

crimemany=0;

crimefew=1;

crimenever=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(crimemany)+" "+Integer.toString(crimefew)+" "+Integer.toString(crimenever));

}

else if(sl\_pcrime==2){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE LAW ABIDING CITIZENS");

crimemany=0;

crimefew=0;

crimenever=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(crimemany)+" "+Integer.toString(crimefew)+" "+Integer.toString(crimenever));

}

}

private void pcrimeMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pcrime=pcrime.getValue();

inform\_me.setText(Integer.toString(sl\_pcrime));

if(sl\_pcrime==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE LAW BREAKERS");

crimemany=1;

crimefew=0;

crimenever=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(crimemany)+" "+Integer.toString(crimefew)+" "+Integer.toString(crimenever));

}

else if(sl\_pcrime==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE EVER BROKEN LAW");

crimemany=0;

crimefew=1;

crimenever=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(crimemany)+" "+Integer.toString(crimefew)+" "+Integer.toString(crimenever));

}

else if(sl\_pcrime==2){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS ARE LAW ABIDING CITIZENS");

crimemany=0;

crimefew=0;

crimenever=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(crimemany)+" "+Integer.toString(crimefew)+" "+Integer.toString(crimenever));

}

}

private void phealthMouseClicked(java.awt.event.MouseEvent evt) {

sl\_phealth=phealth.getValue();

inform\_me.setText(Integer.toString(sl\_phealth));

if(sl\_phealth==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE NO HEALTH ISSUE");

nohealth=1;

hashealth=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nohealth)+" "+Integer.toString(hashealth));

}

else if(sl\_phealth==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE HEALTH ISSUE");

nohealth=0;

hashealth=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nohealth)+" "+Integer.toString(hashealth));

}

}

private void phealthMouseDragged(java.awt.event.MouseEvent evt) {

sl\_phealth=phealth.getValue();

inform\_me.setText(Integer.toString(sl\_phealth));

if(sl\_phealth==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE NO HEALTH ISSUE");

nohealth=1;

hashealth=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nohealth)+" "+Integer.toString(hashealth));

}

else if(sl\_phealth==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE HEALTH ISSUE");

nohealth=0;

hashealth=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nohealth)+" "+Integer.toString(hashealth));

}

}

private void pmovementMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pmovement=pmovement.getValue();

inform\_me.setText(Integer.toString(sl\_pmovement));

if(sl\_pmovement==0){

inform\_me.setText(" ");

inform\_me.setText("MINIMAL MOVEMENTS OF PASSENGERS IN VEHICLE");

movlow=1;

movmedium=0;

movhigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(movlow)+" "+Integer.toString(movmedium)+" "+Integer.toString(movhigh));

}

else if(sl\_pmovement==1){

inform\_me.setText(" ");

inform\_me.setText("MANY MOVEMENTS OF PASSENGERS IN VEHICLE");

movlow=0;

movmedium=1;

movhigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(movlow)+" "+Integer.toString(movmedium)+" "+Integer.toString(movhigh));

}

else if(sl\_pmovement==2){

inform\_me.setText(" ");

inform\_me.setText("EXCESS MOVEMENTS OF PASSENGERS IN VEHICLE");

movlow=0;

movmedium=0;

movhigh=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(movlow)+" "+Integer.toString(movmedium)+" "+Integer.toString(movhigh));

}

}

private void pmovementMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pmovement=pmovement.getValue();

inform\_me.setText(Integer.toString(sl\_pmovement));

if(sl\_pmovement==0){

inform\_me.setText(" ");

inform\_me.setText("MINIMAL MOVEMENTS OF PASSENGERS IN VEHICLE");

movlow=1;

movmedium=0;

movhigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(movlow)+" "+Integer.toString(movmedium)+" "+Integer.toString(movhigh));

}

else if(sl\_pmovement==1){

inform\_me.setText(" ");

inform\_me.setText("MANY MOVEMENTS OF PASSENGERS IN VEHICLE");

movlow=0;

movmedium=1;

movhigh=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(movlow)+" "+Integer.toString(movmedium)+" "+Integer.toString(movhigh));

}

else if(sl\_pmovement==2){

inform\_me.setText(" ");

inform\_me.setText("EXCESS MOVEMENTS OF PASSENGERS IN VEHICLE");

movlow=0;

movmedium=0;

movhigh=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(movlow)+" "+Integer.toString(movmedium)+" "+Integer.toString(movhigh));

}

}

private void pfrequencyMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pfrequency=pfrequency.getValue();

inform\_me.setText(Integer.toString(sl\_pfrequency));

if(sl\_pfrequency==0){

inform\_me.setText(" ");

inform\_me.setText("FEW NUMBER OF PRIO JOURNEYS");

frehigh=0;

fremedium=0;

frelow=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(frehigh)+" "+Integer.toString(fremedium)+" "+Integer.toString(frelow));

}

else if(sl\_pfrequency==1){

inform\_me.setText(" ");

inform\_me.setText("AVERAGE NUMBER OF PRIO JOURNEYS");

frehigh=0;

fremedium=1;

frelow=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(frehigh)+" "+Integer.toString(fremedium)+" "+Integer.toString(frelow));

}

else if(sl\_pfrequency==2){

inform\_me.setText(" ");

inform\_me.setText("HIGH NUMBER OF PRIO JOURNEYS");

frehigh=1;

fremedium=0;

frelow=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(frehigh)+" "+Integer.toString(fremedium)+" "+Integer.toString(frelow));

}

}

private void pfrequencyMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pfrequency=pfrequency.getValue();

inform\_me.setText(Integer.toString(sl\_pfrequency));

if(sl\_pfrequency==0){

inform\_me.setText(" ");

inform\_me.setText("FEW NUMBER OF PRIO JOURNEYS");

frehigh=0;

fremedium=0;

frelow=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(frehigh)+" "+Integer.toString(fremedium)+" "+Integer.toString(frelow));

}

else if(sl\_pfrequency==1){

inform\_me.setText(" ");

inform\_me.setText("AVERAGE NUMBER OF PRIO JOURNEYS");

frehigh=0;

fremedium=1;

frelow=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(frehigh)+" "+Integer.toString(fremedium)+" "+Integer.toString(frelow));

}

else if(sl\_pfrequency==2){

inform\_me.setText(" ");

inform\_me.setText("HIGH NUMBER OF PRIO JOURNEYS");

frehigh=1;

fremedium=0;

frelow=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(frehigh)+" "+Integer.toString(fremedium)+" "+Integer.toString(frelow));

}

}

private void pdrunkMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pdrunk=pdrunk.getValue();

inform\_me.setText(Integer.toString(sl\_pdrunk));

if(sl\_pdrunk==0){

inform\_me.setText(" ");

inform\_me.setText("ZERO ALCOHOL LEVEL IN PASSENGER");

alcohollow=1;

alcoholexcess=0;

alcoholaddictive=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(alcohollow)+" "+Integer.toString(alcoholexcess)+" "+Integer.toString(alcoholaddictive));

}

else if(sl\_pdrunk==1){

inform\_me.setText(" ");

inform\_me.setText("HIGH ALCOHOL LEVEL IN PASSENGER");

alcohollow=0;

alcoholexcess=1;

alcoholaddictive=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(alcohollow)+" "+Integer.toString(alcoholexcess)+" "+Integer.toString(alcoholaddictive));

}

else if(sl\_pdrunk==2){

inform\_me.setText(" ");

inform\_me.setText(" ALCOHOL ADDICTIVE PASSENGER");

alcohollow=0;

alcoholexcess=0;

alcoholaddictive=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(alcohollow)+" "+Integer.toString(alcoholexcess)+" "+Integer.toString(alcoholaddictive));

}

}

private void pdrunkMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pdrunk=pdrunk.getValue();

inform\_me.setText(Integer.toString(sl\_pdrunk));

if(sl\_pdrunk==0){

inform\_me.setText(" ");

inform\_me.setText("ZERO ALCOHOL LEVEL IN PASSENGER");

alcohollow=1;

alcoholexcess=0;

alcoholaddictive=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(alcohollow)+" "+Integer.toString(alcoholexcess)+" "+Integer.toString(alcoholaddictive));

}

else if(sl\_pdrunk==1){

inform\_me.setText(" ");

inform\_me.setText("HIGH ALCOHOL LEVEL IN PASSENGER");

alcohollow=0;

alcoholexcess=1;

alcoholaddictive=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(alcohollow)+" "+Integer.toString(alcoholexcess)+" "+Integer.toString(alcoholaddictive));

}

else if(sl\_pdrunk==2){

inform\_me.setText(" ");

inform\_me.setText(" ALCOHOL ADDICTIVE PASSENGER");

alcohollow=0;

alcoholexcess=0;

alcoholaddictive=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(alcohollow)+" "+Integer.toString(alcoholexcess)+" "+Integer.toString(alcoholaddictive));

}

}

private void pinsideKeyReleased(java.awt.event.KeyEvent evt) {

sl\_pinside=pinside.getValue();

inform\_me.setText(Integer.toString(sl\_pinside));

if(sl\_pinside==0){

inform\_me.setText(" ");

inform\_me.setText("WORSE MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=0;

ispoor=0;

isworse=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==1){

inform\_me.setText(" ");

inform\_me.setText("POOR MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=0;

ispoor=1;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==2){

inform\_me.setText(" ");

inform\_me.setText("FAIR MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=0;

isfair=1;

ispoor=0;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

else if(sl\_pinside==3){

inform\_me.setText(" ");

inform\_me.setText("PROPER MAINENANCE OF SEATS,SAFETY BELTS AND AID BOX");

isgood=1;

isfair=0;

ispoor=0;

isworse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(isgood)+" "+Integer.toString(isfair)+" "+Integer.toString(ispoor)+" "+Integer.toString(isworse));

}

}

private void pdrugMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pdrug=pdrug.getValue();

inform\_me.setText(Integer.toString(sl\_pdrug));

if(sl\_pdrug==0){

inform\_me.setText(" ");

inform\_me.setText("ZERO DRUG LEVEL IN PASSENGER");

zero\_dr=1;

low\_dr=0;

addiction\_dr=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

else if(sl\_pdrug==1){

inform\_me.setText(" ");

inform\_me.setText("HIGH DRUG LEVEL IN PASSENGER");

zero\_dr=0;

low\_dr=1;

addiction\_dr=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

else if(sl\_pdrug==2){

inform\_me.setText(" ");

inform\_me.setText(" DRUG ADDICTIVE PASSENGER");

zero\_dr=0;

low\_dr=0;

addiction\_dr=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

}

private void pdrugMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pdrug=pdrug.getValue();

inform\_me.setText(Integer.toString(sl\_pdrug));

if(sl\_pdrug==0){

inform\_me.setText(" ");

inform\_me.setText("ZERO DRUG LEVEL IN PASSENGER");

zero\_dr=1;

low\_dr=0;

addiction\_dr=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

else if(sl\_pdrug==1){

inform\_me.setText(" ");

inform\_me.setText("HIGH DRUG LEVEL IN PASSENGER");

zero\_dr=0;

low\_dr=1;

addiction\_dr=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

else if(sl\_pdrug==2){

inform\_me.setText(" ");

inform\_me.setText(" DRUG ADDICTIVE PASSENGER");

zero\_dr=0;

low\_dr=0;

addiction\_dr=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(zero\_dr)+" "+Integer.toString(low\_dr)+" "+Integer.toString(addiction\_dr));

}

}

private void pmobileMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pmobile=pmobile.getValue();

inform\_me.setText(Integer.toString(sl\_pmobile));

if(sl\_pmobile==0){

inform\_me.setText(" ");

inform\_me.setText("NO USE OF MOBILEPHONE BY PASSENGERS");

nomobileuse=1;

occassionaluse=0;

overuse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nomobileuse)+" "+Integer.toString(occassionaluse)+" "+Integer.toString(overuse));

}

else if(sl\_pmobile==1){

inform\_me.setText(" ");

inform\_me.setText("OCCASSIONAL USE OF MOBILEPHONE BY PASSENGERS");

nomobileuse=0;

occassionaluse=1;

overuse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nomobileuse)+" "+Integer.toString(occassionaluse)+" "+Integer.toString(overuse));

}

else if(sl\_pmobile==2){

inform\_me.setText(" ");

inform\_me.setText("EXCESSIVE USE OF MOBILEPHONE BY PASSENGERS");

nomobileuse=0;

occassionaluse=0;

overuse=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nomobileuse)+" "+Integer.toString(occassionaluse)+" "+Integer.toString(overuse));

}

}

private void pmobileMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pmobile=pmobile.getValue();

inform\_me.setText(Integer.toString(sl\_pmobile));

if(sl\_pmobile==0){

inform\_me.setText(" ");

inform\_me.setText("NO USE OF MOBILEPHONE BY PASSENGERS");

nomobileuse=1;

occassionaluse=0;

overuse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nomobileuse)+" "+Integer.toString(occassionaluse)+" "+Integer.toString(overuse));

}

else if(sl\_pmobile==1){

inform\_me.setText(" ");

inform\_me.setText("OCCASSIONAL USE OF MOBILEPHONE BY PASSENGERS");

nomobileuse=0;

occassionaluse=1;

overuse=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nomobileuse)+" "+Integer.toString(occassionaluse)+" "+Integer.toString(overuse));

}

else if(sl\_pmobile==2){

inform\_me.setText(" ");

inform\_me.setText("EXCESSIVE USE OF MOBILEPHONE BY PASSENGERS");

nomobileuse=0;

occassionaluse=0;

overuse=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(nomobileuse)+" "+Integer.toString(occassionaluse)+" "+Integer.toString(overuse));

}

}

private void ploadMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pload=pload.getValue();

inform\_me.setText(Integer.toString(sl\_pload));

if(sl\_pload==0){

inform\_me.setText(" ");

inform\_me.setText("NORMAL SIZE PASSENGERS");

normalload=1;

overload=0;

abnormalload=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normalload)+" "+Integer.toString(overload)+" "+Integer.toString(abnormalload));

}

else if(sl\_pload==1){

inform\_me.setText(" ");

inform\_me.setText("OVERLOAD OF PASSENGERS");

normalload=0;

overload=1;

abnormalload=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normalload)+" "+Integer.toString(overload)+" "+Integer.toString(abnormalload));

}

else if(sl\_pload==2){

inform\_me.setText(" ");

inform\_me.setText("ABNORMAL SIZE PASSENGERS");

normalload=0;

overload=0;

abnormalload=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normalload)+" "+Integer.toString(overload)+" "+Integer.toString(abnormalload));

}

}

private void ploadMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pload=pload.getValue();

inform\_me.setText(Integer.toString(sl\_pload));

if(sl\_pload==0){

inform\_me.setText(" ");

inform\_me.setText("NORMAL SIZE PASSENGERS");

normalload=1;

overload=0;

abnormalload=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normalload)+" "+Integer.toString(overload)+" "+Integer.toString(abnormalload));

}

else if(sl\_pload==1){

inform\_me.setText(" ");

inform\_me.setText("OVERLOAD OF PASSENGERS");

normalload=0;

overload=1;

abnormalload=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normalload)+" "+Integer.toString(overload)+" "+Integer.toString(abnormalload));

}

else if(sl\_pload==2){

inform\_me.setText(" ");

inform\_me.setText("ABNORMAL SIZE PASSENGERS");

normalload=0;

overload=0;

abnormalload=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normalload)+" "+Integer.toString(overload)+" "+Integer.toString(abnormalload));

}

}

private void plaggageMouseClicked(java.awt.event.MouseEvent evt) {

sl\_plaggage=plaggage.getValue();

inform\_me.setText(Integer.toString(sl\_plaggage));

if(sl\_plaggage==0){

inform\_me.setText(" ");

inform\_me.setText("NORMAL LUGGAGE");

normaltype=1;

inflammabletype=0;

explosivetype=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normaltype)+" "+Integer.toString(inflammabletype)+" "+Integer.toString(explosivetype));

}

else if(sl\_plaggage==1){

inform\_me.setText(" ");

inform\_me.setText("INFLAMMABLE LUGGAGE");

normaltype=0;

inflammabletype=1;

explosivetype=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normaltype)+" "+Integer.toString(inflammabletype)+" "+Integer.toString(explosivetype));

}

else if(sl\_plaggage==2){

inform\_me.setText(" ");

inform\_me.setText("EXPLOSIVE LUGGAGE");

normaltype=0;

inflammabletype=0;

explosivetype=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normaltype)+" "+Integer.toString(inflammabletype)+" "+Integer.toString(explosivetype));

}

}

private void plaggageMouseDragged(java.awt.event.MouseEvent evt) {

sl\_plaggage=plaggage.getValue();

inform\_me.setText(Integer.toString(sl\_plaggage));

if(sl\_plaggage==0){

inform\_me.setText(" ");

inform\_me.setText("NORMAL LUGGAGE");

normaltype=1;

inflammabletype=0;

explosivetype=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normaltype)+" "+Integer.toString(inflammabletype)+" "+Integer.toString(explosivetype));

}

else if(sl\_plaggage==1){

inform\_me.setText(" ");

inform\_me.setText("INFLAMMABLE LUGGAGE");

normaltype=0;

inflammabletype=1;

explosivetype=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normaltype)+" "+Integer.toString(inflammabletype)+" "+Integer.toString(explosivetype));

}

else if(sl\_plaggage==2){

inform\_me.setText(" ");

inform\_me.setText("EXPLOSIVE LUGGAGE");

normaltype=0;

inflammabletype=0;

explosivetype=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(normaltype)+" "+Integer.toString(inflammabletype)+" "+Integer.toString(explosivetype));

}

}

private void pbeltMouseClicked(java.awt.event.MouseEvent evt) {

sl\_pbelt=pbelt.getValue();

inform\_me.setText(Integer.toString(sl\_pbelt));

if(sl\_pbelt==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE NOT FITTED SAFETY BELTS");

fit=0;

unfit=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(fit)+" "+Integer.toString(unfit));

}

else if(sl\_pbelt==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE FITTED SAFETY BELTS");

fit=1;

unfit=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(fit)+" "+Integer.toString(unfit));

}

}

private void pbeltMouseDragged(java.awt.event.MouseEvent evt) {

sl\_pbelt=pbelt.getValue();

inform\_me.setText(Integer.toString(sl\_pbelt));

if(sl\_pbelt==0){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE NOT FITTED SAFETY BELTS");

fit=0;

unfit=1;

outcomes.setText(" ");

outcomes.setText(Integer.toString(fit)+" "+Integer.toString(unfit));

}

else if(sl\_pbelt==1){

inform\_me.setText(" ");

inform\_me.setText("PASSENGERS HAVE FITTED SAFETY BELTS");

fit=1;

unfit=0;

outcomes.setText(" ");

outcomes.setText(Integer.toString(fit)+" "+Integer.toString(unfit));

}

}

/\*…………………………………………………………………………………………………\*/

private void bnOkActionPerformed(java.awt.event.ActionEvent evt) {

outcomes.setText(" ");

**/\*…………TRAINED NEURAL NETWORK LOADED INTO JAVA CODE…………\*/**

mynet=NeuralNetwork.load("RTS\_NETWORK.nnet");

mynet.setInput(isgood,isfair,ispoor,isworse,elow,emedium,ehigh,amany,amedium,afew,atalert,atdoz,atsleep,crimemany,crimefew,crimenever,nohealth,hashealth,movlow,movmedium,movhigh,bodyproper,bodyimproper,frehigh,fremedium,frelow,alcohollow,alcoholexcess,alcoholaddictive,zero\_dr,low\_dr,addiction\_dr,nomobileuse,occassionaluse,overuse,normalload,overload,abnormalload,normaltype,inflammabletype,explosivetype,fit,unfit);

mynet.calculate();

**/\*……………………………….OUTPUT…………..……………………………………\*/**

outcome=mynet.getOutput();

excellent\_safety=outcome[0];

fairly\_good\_safety=outcome[1];

poor\_safety=outcome[2];

dangerous\_safety=outcome[3];

//display

//outcomes.setText("Jesus Christ loves me\n");

// outcomes.setText(Double.toString(excellent\_safety));

if(excellent\_safety>0.1){

outcomes.append("The Safety of journey is excellent. "+excellent\_safety\*100+" %"+" of success"+"\n");

showPhoto.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Traffic\_Image/RTS\_MODEL\_ExcellentPhoto\_5.jpg")));

}

else if(fairly\_good\_safety>0.1){

outcomes.append("The Safety of journey is fairly good. "+fairly\_good\_safety\*100+" %"+" of success"+"\n");

showPhoto.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Traffic\_Image/RTS\_MODEL\_FairPhoto\_4.jpg")));

}

else if(poor\_safety>0.1){

outcomes.append("The Safety of journey is poor. "+poor\_safety\*100+" %"+" of success"+"\n");

showPhoto.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Traffic\_Image/RTS\_MODEL\_poorPhoto\_6.jpg")));

}

else if(dangerous\_safety>0.1){

outcomes.append("The Safety of journey is danger. "+dangerous\_safety\*100+" %"+" of success"+"\n");

showPhoto.setIcon(new javax.swing.ImageIcon(getClass().getResource("/Traffic\_Image/RTS\_MODEL\_DangerPhoto\_3.jpg")));

}

}

/\*…………………………………………………………………………………..\*/

}