소스코드

function round(val) {

return(Math.round(val\*10000000)/10000000);

}

PI = 3.141592654;

function pie() {

document.keypad.display.value = PI;

}

function MakeArray(n){

this.length=n;

for(var i=1; i<=n; i++) this[i]=0;

return this

}

link = new MakeArray(5);

function enter(num) {

document.keypad.display.value += num;

}

function calculate(sign) {

var temp = document.keypad.display.value \* 1;

document.keypad.display.value = "";

document.keypad.list.value = temp;

link[1] = temp;

if (sign == "/") {link[2] = "/"; document.keypad.list.value += " / ";}

if (sign == "\*") {link[2] = "\*"; document.keypad.list.value += " \* ";}

if (sign == "-") {link[2] = "-"; document.keypad.list.value += " - ";}

if (sign == "+") {link[2] = "+"; document.keypad.list.value += " + ";}

if (sign == "p") {link[2] = "p"; document.keypad.list.value += " ^ ";}

}

function power() {

temp = 1;

n = link[3];

for(var i=1; i<=n; i++) temp \*= link[1];

return(temp);

}

function equal() {

if (link[2]) {

if (document.keypad.display.value != "") {

var temp = document.keypad.display.value \* 1;

document.keypad.list.value += temp;

link[3] = temp;

if (link[2] == "/") {res = link[1] / link[3]; document.keypad.display.value = round(res)}

if (link[2] == "\*") {res = link[1] \* link[3]; document.keypad.display.value = round(res)}

if (link[2] == "-") {res = link[1] - link[3]; document.keypad.display.value = round(res)}

if (link[2] == "+") {res = link[1] + link[3]; document.keypad.display.value = round(res)}

if (link[2] == "p") {document.keypad.display.value = round( power() )}

link[1]=0; link[2]=0; link[3]=0;

}

}

}

function calc(code) {

var temp = document.keypad.display.value \* 1;

if (code == 1) {temp1 = Math.sin(temp\*PI/180); document.keypad.list.value = "sin "}

if (code == 2) {temp1 = Math.cos(temp\*PI/180); document.keypad.list.value = "cos "}

if (code == 3) {temp1 = Math.tan(temp\*PI/180); document.keypad.list.value = "tan "}

if (code == 4) {temp1 = Math.sqrt(temp); document.keypad.list.value = "sqrt "}

if (code == 5) {temp1 = Math.log(temp); document.keypad.list.value = "ln "}

if (code == 6) {temp1 = 1/temp; document.keypad.list.value = "1/x, x="}

if (code == 7) {temp1 = temp \* temp; document.keypad.list.value = "x\*x, x="}

document.keypad.list.value += temp;

document.keypad.display.value = round(temp1);

}

function fsolve() {

var a = document.keypad.c1.value\*1;

var b = document.keypad.c2.value\*1;

var c = document.keypad.c3.value\*1;

if (a==0) {document.keypad.list.value = " Not a Quadratic";

document.keypad.display.value = " Equation"}

else { x1 = (b\*b-4\*a\*c);

if ( x1 < 0) {document.keypad.list.value = " Imaginary Roots";

temp = (Math.sqrt(Math.abs(x1)))/(2\*a);

x2 = round(-b/(2\*a)) + "+/- " + round(temp) + "i";

document.keypad.display.value = x2}

else {

var x1 = (-b + Math.sqrt(b\*b-4\*a\*c)) / (2\*a);

var x2 = (-b - Math.sqrt(b\*b-4\*a\*c)) / (2\*a);

document.keypad.list.value = "x1 = " + round(x1);

document.keypad.display.value = "x2 = " + round(x2);

}

}

}

function change() {

var temp = document.keypad.display.value;

if (temp.substring(0,1) == "-") {document.keypad.list.value = "";

document.keypad.display.value = 0 - document.keypad.display.value \* 1}

if (temp.substring(0,1) != "-") {document.keypad.list.value = "";

document.keypad.display.value = "-" + temp.substring(0,temp.length)}

}

function eraser() {

document.keypad.list.value = " Start Punching!";

document.keypad.display.value = "";

document.keypad.c1.value = "";

document.keypad.c2.value = "";

document.keypad.c3.value = "";

link[1]=0; link[2]=0; link[3]=0;

}

function backer() {

var temp = document.keypad.display.value;

document.keypad.display.value = temp.substring(0,temp.length\*1 -1);

}

var memory = 0;

function mem(val) {

if (val == 1 ) {document.keypad.list.value = " --> Memory In";

memory = document.keypad.display.value \* 1}

if (val == -1) {document.keypad.display.value = memory}

if (val == 0 ) {document.keypad.list.value = " Memory Erased";

document.keypad.display.value = ""; memory = 0}

}

function message() {

alert('\n\nSend your comments and suggestions to:\n\n ----> aag4@lehigh.edu <----');

}

function travel(link) {

window.open(link,"calculator","toolbar=1,location=1,status=1,scrollbars=1,directories=1,copyhistory=1,menubar=1,resizable=1")

}

var screen=" ";

function eraser2() {

var ans = confirm('\nDo you want to clear the entire CALCpad?\n');

if (ans) {screen = document.notes.junk.value; document.notes.junk.value = "";}

}

function copy() {

document.notes.junk.value = document.keypad.list.value+"\n"+document.keypad.display.value+"\n"+document.notes.junk.value;

}

function help() {

screen = document.notes.junk.value;

msg1 = "Following are some of the\ncalculator functions:\n";

msg2 = "\n(<-> M) - Erase Memory Contents\n(--> M) - Memory In\n(<-- M) - Memory Out";

msg3 = "\n(<--) - Erase last character\n(x^y) - X to the power of Y";

msg4 = "\n\nTo Go Back, click 'Restore CALCpad'";

document.notes.junk.value = "";

document.notes.junk.value = msg1 + msg2 + msg3 + msg4;

}

function restore() {

document.notes.junk.value = "";

document.notes.junk.value = screen;

}

</SCRIPT>

<TABLE border=0 bgcolor="#FAF4FF" bordercolor="#9FBAD0" cellpadding="2" cellspacing="0">

<TBODY>

<TR>

<TD align=middle rowSpan=2 vAlign=top>

<TABLE border=0 bgcolor="#F5ECFF">

<TR>

<TD align=middle rowSpan=2 vAlign=center bgcolor="#DBE4F2">

<FORM name=keypad>

<CENTER>

<TABLE border=1 cellPadding=2 cellSpacing=0 bgcolor="#DBE4F2" bordercolor="#808080">

<TBODY>

<TR>

<TD align=middle colSpan=9 vAlign=center bgcolor="#006393">

<p align="center"><font color="#FFFF00" face="Arial" size="4"><B>WEB</B> <B>.Sci-CALCulator</B></font></p>

</TD>

</TR>

<TR>

<TD align=middle colSpan=6 vAlign=center><font size="2" face="Verdana"><INPUT name=list size=22

value=" Start Punching!"> </font> </TD>

<TD align=middle colSpan=3 vAlign=center><INPUT name=alex1 onclick=eraser() type=button value=" CLEAR "></TD></TR>

<TR>

<TD align=middle colSpan=6 vAlign=center><font size="2" face="Verdana"><INPUT name=display

size=22></font></TD>

<TD align=middle colSpan=2 vAlign=center><INPUT name=alex2 onclick=equal() type=button value=" = "></TD>

<TD align=middle vAlign=center><INPUT name=alex3 onclick=backer() type=button value=" <-- "></TD></TR>

<TR>

<TD align=middle vAlign=center><INPUT name=alex4 onclick=enter(1) type=button value=" 1 "></TD>

<TD align=middle vAlign=center><INPUT name=alex5 onclick=enter(2) type=button value=" 2 "></TD>

<TD align=middle vAlign=center><INPUT name=alex6 onclick=enter(3) type=button value=" 3 "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex7 onclick="calculate('/')" type=button value=" / "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex8 onclick=calc(1) type=button value=" sin "></TD>

<TD align=middle vAlign=center><INPUT name=alex9 onclick=calc(4) type=button value=" x½ "></TD>

<TD align=middle vAlign=center><INPUT name=alex10 onclick=mem(0) type=button value="<->M"></TD></TR>

<TR>

<TD align=middle vAlign=center><INPUT name=alex11 onclick=enter(4) type=button value=" 4 "></TD>

<TD align=middle vAlign=center><INPUT name=alex12 onclick=enter(5) type=button value=" 5 "></TD>

<TD align=middle vAlign=center><INPUT name=alex13 onclick=enter(6) type=button value=" 6 "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex14 onclick="calculate('\*')" type=button value=" \* "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex15 onclick=calc(2) type=button value=cos></TD>

<TD align=middle vAlign=center><INPUT name=alex16 onclick=calc(7) type=button value=" x² "></TD>

<TD align=middle vAlign=center><INPUT name=alex17 onclick=mem(1) type=button value="--> M"></TD></TR>

<TR>

<TD align=middle vAlign=center><INPUT name=alex18 onclick=enter(7) type=button value=" 7 "></TD>

<TD align=middle vAlign=center><INPUT name=alex19 onclick=enter(8) type=button value=" 8 "></TD>

<TD align=middle vAlign=center><INPUT name=alex20 onclick=enter(9) type=button value=" 9 "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex21 onclick="calculate('-')" type=button value=" - "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex22 onclick=calc(3) type=button value="tan "></TD>

<TD align=middle vAlign=center><INPUT name=alex23 onclick=calc(6) type=button value="1/x "></TD>

<TD align=middle vAlign=center><INPUT name=alex24 onclick=mem(-1) type=button value="<-- M"></TD></TR>

<TR>

<TD align=middle vAlign=center><INPUT name=alex25 onclick=enter(0) type=button value=" 0 "></TD>

<TD align=middle vAlign=center><INPUT name=alex26 onclick="enter('.')" type=button value=dot></TD>

<TD align=middle vAlign=center><INPUT name=alex27 onclick=change() type=button value=" +|- "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex28 onclick="calculate('+')" type=button value=" + "></TD>

<TD></TD>

<TD align=middle vAlign=center><INPUT name=alex29 onclick=pie() type=button value=" pi "></TD>

<TD align=middle vAlign=center><INPUT name=alex30 onclick=calc(5) type=button value=" Ln "></TD>

<TD align=middle vAlign=center><INPUT name=alex31 onclick="calculate('p')" type=button value=" x^y "></TD></TR>

<TR>

<TD align=middle colSpan=9 vAlign=center></TD></TR>

<TR>

<TD align=middle colSpan=9 vAlign=center><B><font face="Arial" size="2"> </font><font face="Verdana" size="2"><INPUT name=c1 size=4>

</font><font face="Arial" size="3">

\*X² + </font><font face="Verdana" size="2">

<INPUT name=c2 size=4>

</font><font face="Arial" size="2"> </font><font face="Arial" size="3">\*X +</font><font face="Arial" size="2">

</font><font face="Verdana" size="2">

<INPUT name=c3 size=4>

</font><font face="Arial" size="2"> </font><font face="Arial" size="3">= 0</font><font face="Arial" size="2">

</font></B>

<font face="Arial" size="2">

<INPUT name=alex onclick=fsolve() type=button value=Solve><B> </B>

</font>

</TD></TR></TBODY></TABLE></CENTER></TD>

</TR>

</TABLE>

<CENTER><INPUT name=alex onclick=help() type=button value=" Help ">

</CENTER></FORM></TD>

<TD align=middle vAlign=center bgcolor="#DBE4F2">

<center>

<B><font face="Arial" size="3" color="#000000">CALCpad</font></B>

</center>

</TD>

</TR>

<TR>

<TD align=middle vAlign=center>

<FORM name=notes>

<TEXTAREA cols=40 name=junk rows=10 wrap=virtual>

**이미지**

