

Calculator

kobayashikorio@gmail.com

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SUPER CLASS;
key[nam_] := Module[{ },
  keydisp[nam[x_]]^:=Button[x,act[x],Appearance->
>"Palette",Background->LightBrown,BaseStyle->{Bold}]
];
NAMKEY CLASS;
namkey[nam_] := Module[{ },
  key[nam];
  xreg[n_] := If[eflag, (x=n;eflag=False), (x=(10x+n))];
  namdef[nam[n_]]^:=keydisp[nam[n]]/.act->xreg;
];
DISPLAY AREA;
Module[{ },
  a00:=Button[Dynamic@x,BaseStyle->{Bold},Appearance->
>"Palette",Alignment->Right,ImageMargins->1,Enabled->False];
];
MAKE SINGLETONE;
Module[{nam},
  key[nam];
  xregE[n_] := (y=x;eflag=True);
  xregC[n_] := (x=0);
  xregP[n_] := (x=x+y;y=x;eflag=True);
  xregM[n_] := (x=y-x;y=x;eflag=True);
  xregMult[n_] := (x=y*x;y=x;eflag=True);
  xregD[n_] := (x=y/x;y=x;eflag=True);
  xregDel[n_] := (x=Quotient[x,10];eflag=False);
  xregS[n_] := (x=-x);
  xregR[n_] := (t=y;y=x;x=t);
  a51:=keydisp[nam["Enter"]]/.act->xregE;
  a11:=keydisp[nam["Clr"]]/.act->xregC;
  a44:=keydisp[nam["+"]]/.act->xregP;
  a14:=keydisp[nam["-"]]/.act->xregM;
  a34:=keydisp[nam["*"]]/.act->xregMult;
  a24:=keydisp[nam["/"]]/.act->xregD;
  a12:=keydisp[nam[" \[LeftArrow] "]]/.act->xregDel;
  a13:=keydisp[nam[" ± "]]/.act->xregS;
  a54:=keydisp[nam[" \[UpEquilibrium] "]]/.act->xregR;
];
MAKE INSTANCE;
a53=(namkey[u=Unique[]];namdef[u[0]]);
a41=(namkey[u=Unique[]];namdef[u[1]]);
a42=(namkey[u=Unique[]];namdef[u[2]]);
a43=(namkey[u=Unique[]];namdef[u[3]]);
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a31=(namkey[u=Unique[]];namdef[u[4]]);
a32=(namkey[u=Unique[]];namdef[u[5]]);
a33=(namkey[u=Unique[]];namdef[u[6]]);
a21=(namkey[u=Unique[]];namdef[u[7]]);
a22=(namkey[u=Unique[]];namdef[u[8]]);
a23=(namkey[u=Unique[]];namdef[u[9]]);

SHOW CALCULATOR;
x=0;y=0;t=0;eflag=True;
Grid[
  {{a00,SpanFromLeft,SpanFromLeft,SpanFromLeft},
   {a11,a12,a13,a14},
   {a21,a22,a23,a24},
   {a31,a32,a33,a34},
   {a41,a42,a43,a44},
   {a51,SpanFromLeft,a53,a54}},
  Spacings->{0,0},Frame->All]

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