**STATEMENT: TO BUILD A SIMPLE CALCULATOR**

**SOURCE CODE:**

//---------------------------------------------------------------------------

#include <vcl\vcl.h>

#pragma hdrstop

#include "Code1.h"

//---------------------------------------------------------------------------

#pragma resource "\*.dfm"

TForm1 \*Form1;

int x, y, z, store;

int flag=0, oper;

//---------------------------------------------------------------------------

\_\_fastcall TForm1::TForm1(TComponent\* Owner)

: TForm(Owner)

{

}

int setvalue(int a)

{

if(flag==0)

{

x=a;

flag=1;

return x;

}

else

{

y=a;

flag==0;

return y;

}

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button1Click(TObject \*Sender)

{

Edit1->Text=setvalue(1);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button2Click(TObject \*Sender)

{

Edit1->Text=setvalue(2);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button3Click(TObject \*Sender)

{

Edit1->Text=setvalue(3);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button4Click(TObject \*Sender)

{

Edit1->Text=setvalue(4);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button5Click(TObject \*Sender)

{

Edit1->Text=setvalue(5);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button6Click(TObject \*Sender)

{

Edit1->Text=setvalue(6);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button7Click(TObject \*Sender)

{

Edit1->Text=setvalue(7);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button8Click(TObject \*Sender)

{

Edit1->Text=setvalue(8);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button9Click(TObject \*Sender)

{

Edit1->Text=setvalue(9);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button10Click(TObject \*Sender)

{

Edit1->Text=setvalue(0);

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button12Click(TObject \*Sender)

{

oper=1;

Edit1->Text="+";

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button13Click(TObject \*Sender)

{

oper=2;

Edit1->Text="-";

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button14Click(TObject \*Sender)

{

oper=3;

Edit1->Text="\*";

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button15Click(TObject \*Sender)

{

oper=4;

Edit1->Text="/";

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button11Click(TObject \*Sender)

{

switch(oper)

{

case 1:

z=x+y;

break;

case 2:

z=x-y;

break;

case 3:

z=x\*y;

break;

case 4:

z=x/y;

break;

case 5:

z=x%y;

break;

}

Edit1->Text=z;

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button16Click(TObject \*Sender)

{

Edit1->Text=0;

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button17Click(TObject \*Sender)

{

Edit1->Text=" ";

}

//---------------------------------------------------------------------------

void \_\_fastcall TForm1::Button18Click(TObject \*Sender)

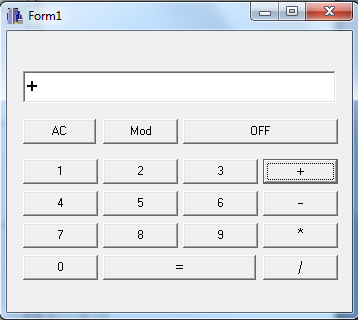
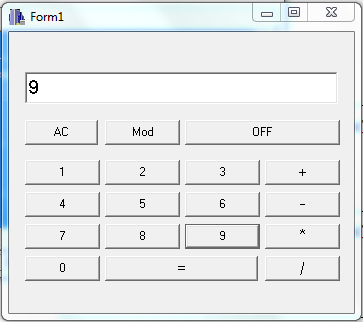
{

oper=5;

}

//---------------------------------------------------------------------------

**OUTPUT:**

****

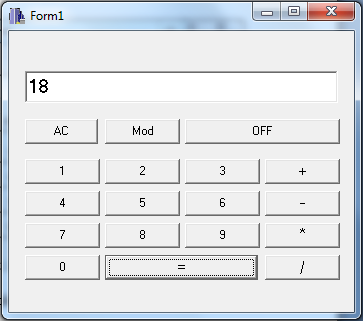
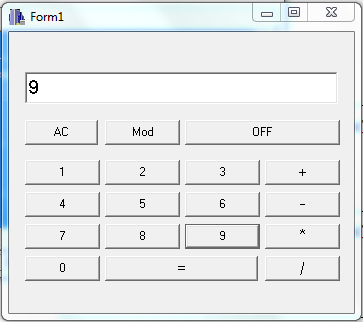


Fig: Addition Operation in Simple Calculator

**CONCLUSION:**

The program could perform simple integer calculation problems such as addition, subtraction, multiplication, division and finding modulus. This is a simple integer calculator thereby unable to handle decimal calculations.

**REFERENCE:**

[1] D. Hearn and M. Baker, Computer Graphics, second edition.