#include<stdio.h>

int add( int n1,int n2)

{

return n1+n2;

}

int sub (int n1,int n2)

{

return n1-n2;

}

int mul (int n1,int n2)

{

return n1\*n2;

}

int div (int n1 ,int n2)

{

return n1/n2;

}

int sumsqr(int n1,int n2)

{

return n1\*n1+2\*n1\*n2+n2\*n2;

}

int subsqr(int n1,int n2)

{

return n1\*n1-2\*n1\*n2+n2\*n2;

}

int suminsqr(int n1,int n2)

{

return n1\*n1+2\*n1\*n2+n2\*n2-2\*n1\*n2;

}

int subinsqr(int n1,int n2)

{

return (n1+n2)\*(n1-n2);

}

int main ()

{

int number1,number2,result,n;

while(1)

{

printf ("Enter two numbers (for two 0s to exit):\n" );

scanf("%d %d",&number1,&number2);

if (number1 ==0 && number2 ==0)

{

printf("program terminated");

break;

}

printf ("Enter \n\n\t1 for addition \n\n\t2 for subtraction\n\n\t3 for multiplication\n\n\t4 for division\n\n\t5 for ( number1 + number2)^2 \n\n\t6 for (number1 - number2)^2 \n\n\t7 for (number1)^2 +(number2)^2 \n\n\t8 for (number1)^2-(number2)^2 \n\n\t");

scanf("%d",&n);

if (n==1)

{

result=add(number1,number2);

}

else if (n==2)

{

result=sub(number1,number2);

}

else if (n==3)

{

result=mul(number1,number2);

}

else if (n==4)

{

if(number2 ==0 )

{

printf("Can not divide by zero");

continue;

}

result =div(number1,number2);

}

else if (n==5)

{

result=sumsqr(number1,number2);

}

else if(n==6)

{

result=subsqr(number1,number2);

}

else if (n==7)

{

result=suminsqr(number1,number2);

}

else if (n==8)

{

result=subinsqr(number1,number2);

}

else

{

printf("unknown operator \n");

continue;

}

printf("result is : \t %d \n\n \t\t \*\*\*\*\*YOUR MATH IS SOLVED\*\*\*\*\*\n>>>>> Again: \n \n \n",result);

}

return 0;

}