Secant method

Xn+1= (Xn-1 \* f(Xn) – Xn \* F(Xn-1))/( f(Xn) – F(Xn-1) )

Xn+1 = Xn \* F(Xn-1) – Xn-1 \* F(Xn)/( F(Xn-1)- F(Xn))

**Double function1(double x)**

{

Double result= x^2

Return result;

}

int main()

{

Double x0,x1, fxn, fxnminus1,acc;

Cout<<”enter value of initial guess1”;

Cin>>x0;

Cout<<”enter value of initial guess2”;

Cin>>x1;

Cout<<”enter desired accuracy”

Cin>>acc;

Do{

Double temp0=X0;

Double temp1=X1;

X0=x1;

Fxnminus1=function1(temp0);

Fxn=funtion1(temp1);

X1= (temp0\* Fxn – temp1\*Fxnminus1)/(Fxn-Fxnminus1);

}

While((X1-temp1)>=acc);