**Xn+1 = Xn – F(Xn)/F’(Xn)**

**X0=2**

**X1=2.1**

**Double function1(double x)**

{

Double result= x^2

Return result;

}

**Double functionderivative(double x)**

{

Double result=2x;

Return result;

}

int main()

{

Double x, temp,acc;

Cout<<”enter value of initial guess”;

Cin>>x;

Cout<<”enter desired accuracy”

Cin>>acc;

**Do{**

**temp=x;**

Double func1= function1(temp);

Double funcderi=functionderivative(temp);

Double funcdiv=func1/funcderi;

x=temp-funcdiv;

}

While(fabs(x-temp)>=acc);

Cout<<”final value of X”<<x;

Return 0;

}