

# GT's Blog

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## C C++ CODE: Lagrange's interpolation



Working C C++ Source code program for Lagrange's interpolation

```

/***** Lagrange's interpolation *****/
#include<iostream.h>
#include<conio.h>
int main()
{
    int n,i,j;
    float mult,sum=0,x[10],f[10],a;
    clrscr();
    cout<<"Enter no of sample points ? ";
    cin>>n;
    cout<<"Enter all values of x and corresponding funtional value: "<<endl;
    for(i=0;i<n;i++)
        cin>>x[i]>>f[i];

    cout<<"\nEnter your x for calculation : ";
    cin>>a;

    for(i=0;i<=n-1;i++)
    {
        mult=1;
        for(j=0;j<=n-1;j++)
        {
            if(j!=i)
                mult*=(a-x[j])/(x[i]-x[j]);
        }
        sum+=mult*f[i];
    }
    cout<<"\nThe estimated value of f(x) = "<<sum;
    getch();
    return 0;
}

```

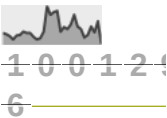
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this program only calculate value of the function at given x. if we want to calculate the derivative of the function, how to do this?

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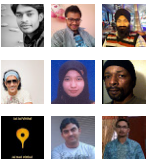
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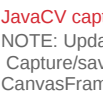


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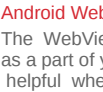
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