```c
#include<stdio.h>
#include<conio.h>

void main()
{
        static float x[30],y[30];
        int i,j,n,ord_pol;
        float inp_x,est_y,pol_val,basis;

        printf("\nEnter number of data points required --> ");
        scanf("%d",&n);
        printf("\nEnter your data \n");
        for(i=0;i<n;++i)
        {
                printf("\nEnter x[%d] = ",i);
                scanf("%f",&x[i]);

                printf("\nEnter y[%d] = ",i);
                scanf("%f",&y[i]);
        }
        printf("\nEnter a input x value for estimation --> ");
        scanf("%f",&inp_x);

        ord_pol=n-1;

        pol_val = 0;
        for(i = 0;i<=ord_pol;++i)
        {
                basis = 1;
                for(j=0;j<= ord_pol;++j)
                        if(j!=i)
                                basis = basis*(inp_x - x[j])/(x[i] - x[j]);
                pol_val = pol_val + basis*y[i];
        }

        est_y = pol_val;
        printf("\nThe input data as given below:\n\n");
        printf("\tX\tY\n\n");
        for(i=0;i<n;++i)
                printf("\t%5.3f\t%5.3f\n",x[i],y[i]);
        printf("\n\nThe estimated value for x = %5.3f is y = %5.3f",inp_x,est_y);
        getch();
}
```