```c
#include<stdio.h>

#include<conio.h>

float f(float x)

{

    return(1/(1+x));

}

void main()

{

    int i,n;

    float x0,xn,h,y[20],so,se,ans,x[20];

    printf("\n Enter values of x0,xn,h: ");

    scanf("%f%f%f",&x0,&xn,&h);

    n=(xn-x0)/h;

    if(n%2==1)

    {

        n=n+1;

    }

    h=(xn-x0)/n;

    printf("\n Refined value of n and h are:%d %f\n",n,h);

    printf("\n Y values: \n");

    for(i=0; i<=n; i++)

    {

        x[i]=x0+i*h;

        y[i]=f(x[i]);

        printf("\n %f\n",y[i]);

    }

    so=0;
```

```
        se=0;

        for(i=1; i<n; i++)

        {

                if(i%2==1)

                {

                        so=so+y[i];

                }

                else

                {

                        se=se+y[i];

                }

        }

        ans=h/3*(y[0]+y[n]+4*so+2*se);

        printf("\n Final integration is %f",ans);

        getch();

}
```

```
    Enter values of x0,xn,h: 1
    3
    1

    Refined value of n and h are:2 1.000000

    Y values:

    0.500000

    0.333333

    0.250000

    Final integration is 0.694444
```