

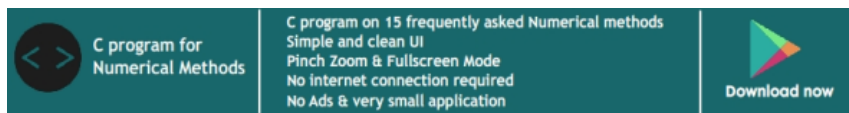
WBUT Assignment Help

For B.tech(CS & IT) , BCA , MCA , B.Sc(CS) Students

AUG 8 2012

Code for Newton's Backward interpolation in C

C code to implement Newton's Backward interpolation . Compiled in DEV C++

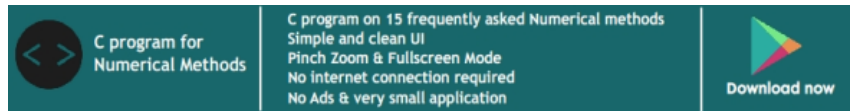


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```

1  #include<stdio.h>
2  #include<conio.h>
3  #include<math.h>
4  #include<stdlib.h>
5  main()
6  {
7      float x[20],y[20],f,s,d,h,p;
8      int j,i,k,n;
9      printf("enter the value of the elements :");
10     scanf("%d",&n);
11     printf("enter the value of x: nn");
12     for(i=1;i<=n;i++)
13     {
14         scanf("%f",&x[i]);
15     }
16     printf("enter the value of y: nn");
17     for(i=1;i<=n;i++)
18     {
19         scanf("%f",&y[i]);
20     }
21     h=x[2]-x[1];
22     printf("enter the searching point f:");
23     scanf("%f",&f);
24     s=(f-x[n])/h;
25     d=y[n];
26     p=1;
27     for(i=n,k=1;i>=1,k<n;i--,k++)
28     {
29         for(j=n;j>=1;j--)
30         {
31             y[j]=y[j]-y[j-1];
32         }
33         p=p*(s+k-1)/k;
34         d=d+p*y[n];
35     }
36     printf("for f=%f ,ans is=%f",f,d);
37     getch();
38 }

```

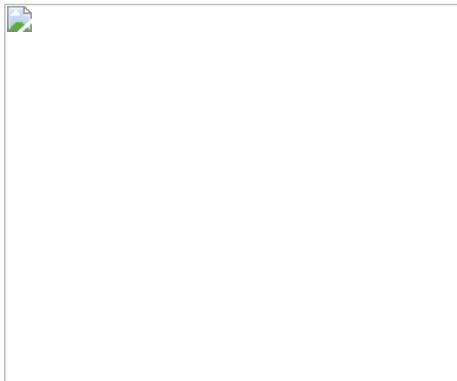


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