//simpsons

#include<stdio.h>

float f(float x)

{

float y;

y=(x\*x\*x);

return y;

}

int main()#include<stdio.h>

main()

{

int i,j,k,n,c;

float a[20][20];

printf("enter the size of matrics \n");

scanf("%d",&n);

printf("enter the elements in matrics \n");

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

{

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

{

scanf("%f",&a[i][j]);

printf("a[%d][%d] :",i,j);

}

}

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

{

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

{

if(i<j)

{

c=a[i][j]/a[j][j];

for(k=1;k<=k=1;k++)

a[i][k]=a[i][k]-c\*a[j][k];

}

}

}

}

..

{

float x0,xn,n,h,y0,yn,t,s1=0,s2=0;

int i;

printf("\nenter lower limit:");

scanf("%f",&x0);

printf("\nEnter upper limit:");

scanf("%f",&xn);

printf("\nEnter no of divisions:");

scanf("%f",&n);

h=(xn-x0)/n;

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

{

if((i%3)!=0)

{

s1=s1+f(x0+(i\*h));

}

else

{

s2=s2+f(x0+(i\*h));

}

}

t=(h\*(f(x0)+f(xn)+(3\*s1)+(2\*s2)))/3;

printf("T=%f",t);

}

/\*==========OUTPUT====================

enter lower limit:0

Enter upper limit:1

Enter no of divisions:5

T=0.183467

Process returned 0 (0x0) execution time : 14.316 s

Press any key to continue.

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