**Code:**

#include<stdio.h>

#include<conio.h>

#include<math.h>

float fx(float y,float z)

{

float x1; x1=(17-y+2\*z)/20;

return x1;

}

float fy(float x,float z)

{

float y1;

y1=(-18-3\*x+z)/20;

return y1;

}

float fz(float x,float y)

{

float z1;

z1=(25-2\*x+3\*y)/20;

return z1;

}

int main() {

int i,j,n;

float a1,b1,c1;

float a,b,c;

printf("Enter the no. of Iteration : ");

scanf("%d",&n);

printf("Enter The initial value : ");

scanf("%f %f %f",&a,&b,&c);

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

{

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

{

a1=fx(b,c);

b1=fy(a,c);

c1=fz(a,b);

a=a1;

b=b1;

c=c1;

}

}

printf("\na1 = %f\na2 = %f\na3 = %f",a1,b1,c1);

getch();

return 0;

}

**Output:**

