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**B.Sc (Hons) Physics**

**SOURCE CODE**

#include<iostream.h>

#include<conio.h>

#include<math.h>

#define f(x) (x\*x - 8)

void main()

{

clrscr();

float a,b,c;

cout<<"Enter the interval between which roots are to be found: \n";

cin>>a>>b;

if(f(a)\*f(b)<0)

{

while(fabs(a-b)>(0.0001))

{

c=(a+b)/2;

if(f(a)\*f(c)<0)

{

b=c;

}

else

{a=c;}

}

cout<<"Root is close to:"<<c;

}

else

{

cout<<"No roots are found in given interval";

}

getch();

}

**OUTPUT**

