

```
/*  
This is a program to find out the inter-molecular distance of NaCl.  
This program is created by Mohammad Sazzad Hossain.  
*/
```

```
# include <iostream>  
# include <math.h>  
  
using namespace std;  
  

```

```
do {  
    if (f(x) < 0){  
        a = x;  
        x++;  
    }  
    else  
        tag = 1;  
}while (tag != 1);
```

```
return (x);  
}
```

```
double f (double x){  
    double alpha = 1090, ro = 0.33, e2 = 14.4;  
  
    return ((-e2 / (x * x)) + (alpha / ro) * exp (-x / ro));  
}
```