```
include<stdio.h>
#include<math.h>
int main(){
    float a,b,c,d1;
   printf("Enter the coefficients a,b,c : ");
   scanf("%f",&a);
scanf("%f",&b);
scanf("%f",&c);
    float d = sqrt(b*b-4*a*c);
    if(d>0)
    {float \ x1 = (-b + d)/(2*a);}
   float x2 = (-b-d)/(2*a);
   printf("\nThe roots are real and distinct\nroot 1 : %.3f\nroot 2 : %.3f\n".x1,x2);}
    else if(d=0){
    float \times 1 = -b/(2*a);
   printf("\nThe roots are equal\nroot 1 : %.3f\nroot 2 : %.3f\n",x1,x1);
   else(
   d = (b*b-4*a*c);
   printf("The roots are imaginary\n root 1 : %.3f + i%.3f", -b/(2*a), sqrt(-d)/(2*a));
    printf("\n root 2 : %.3f - i%.3f\n", -b/(2*a), sqrt(-d)/(2*a));
```

```
umangs-MacBook-Air-2:desktop umanggoel$ gcc eval_1.c
umangs-MacBook-Air-2:desktop umanggoel$ ./a.out
Enter the coefficients a,b,c : 2
3
1
The roots are real and distinct
root 1 : -0.500
root 2 : -1.000
umangs-MacBook-Air-2:desktop umanggoel$ ./a.out
Enter the coefficients a,b,c : 1
2
1
The roots are equal
root 1 : -1.000
root 2 : -1.000
umangs-MacBook-Air-2:desktop umanggoel$ ./a.out
Enter the coefficients a,b,c : 1
1
1
The roots are imaginary
 root 1 : -0.500 + i0.866
 root 2 : -0.500 - i0.866
umangs-MacBook-Air-2:desktop umanggoel$
```

```
[umangs-MacBook-Air-2:desktop umanggoel$ gcc eval_2.c
[umangs-MacBook-Air-2:desktop umanggoel$ ./a.out
Enter the numbers :
54
345
1243
smallest = 54.0
umangs-MacBook-Air-2:desktop umanggoel$
```