

## DAY - 8

C:

```
#include<stdio.h>
#include<math.h>
int main()
{
    int a,b,c,d,root1,root2,i,real;
    scanf("%d %d %d",&a,&b,&c);
    d = (b*b) - 4*a*c;
    if(d>1)
    {
        root1 = (-b+sqrt(d)) / 2*a;
        root2 = (-b-sqrt(d)) / 2*a;
        if(root1 == root2)
        {
            printf("Roots are equal\n");
            printf("Root1 = root2 = %.2f",root1);
        }
        else
        {
            printf("Roots are not equal\n");
        }
    }
    else if(d==0)
    {
        root1 = root2 = -b/2*a;
        if(root1 == root2)
        {
            printf("Roots are equal\n");
            printf("Root1 = root2 = %.2f",root1*1.0);
        }
        else
        {
            printf("Roots are not equal\n");
        }
    }
}
```

```
}  
else  
{  
    real = -b/2*a;  
    i = sqrt(d)/2*a;  
    printf("%d %d\n", real, i);  
    printf("%d %d\n", real, i);  
}  
}
```