Lab4 and 5 Q-5 Name siraj u din Roll no 25k-0158

```
#include<stdio.h>
#include<math.h>
 main(){
        float a,b,c ,disc,root1,root2;
        printf("Enter the value of a,b and c of quadratic equation: ");
        scanf("%d\n %d\n %d",&a,&b,&c);
        disc=b*b-4*a*c;
        if(disc>0){
                root1=(-b+sqrt(disc))/(2*a);
                root2=(-b-sqrt(disc))/(2*a);
                printf("Roots are real and distinct:Root1= %.2f \t Root2= %.2f",root1, root2);
        }else{
                if(disc==0){
                        root1=-b/(2*a);
                        root2=-b/(2*a);
                        printf("Roots are real and equal : Root1= %.2f \t Root2= %.2f",root1,
root2);
                }
                else
                {
                                float realPart=-b/(2*a);
                                float imgPart=sqrt(-disc)/(2*a);
                                printf("Roots are imaginary: %f+%fi  and
%f+%fi",realPart,imgPart,realPart,imgPart);
                }
        }
}
```