

PROGRAM 10

PROGRAM TO FIND OUT THE ROOTS OF A QUADRATIC EQUATION

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
    int a,b,c,d,r1,r2;
    clrscr();
    printf("enter the value of a\n");
    scanf("%d",&a);
    if(a==0)
        printf("roots doesnot exist");
    else
    {
        if(a>0)
        {
            printf("enter the value of b and c\n");
            scanf("%d%d",&b,&c);
            d=b*b-4*a*c;
        }
        if(d>0)
        {
            (r1=(-b/2*a+sqrt(d)/2*a));
            (r2=(-b/2*a-sqrt(d)/2*a));
            printf("the value of r1 is %d\n",r1);
            printf("the value of r2 is %d\n",r2);
        }
        if(d==0)
        {
            (r1=(-b/2*a+sqrt(d)/2*a));
            (r2=(-b/2*a+sqrt(d)/2*a));
            printf("the value of r1,r2 is same %d\n",r1,r2);
        }
        if(d<0)
            printf("roots are imaginary");
        getch();
    }
}
```

ROLL NO. =12252