```
12/12/24
               RA12-12-23
impost java util scanner
class Quadratic &
   int a, b, c;
     double 81, 82, d:
     Void get d Of.
       Scanner S= new Scanner (system. in);
      System. Out. Println ("Enter the Coefficients of a, b, c");
      a = s. nectin+ ();
      b= s. nextIn+ ();
      c= s. next Int ();
   Void compute ()
      while (a== 0)
     ¿ System. out. prentin("Not a quadratic equation");
        System. out. println ("Enter a non zero value for a");
       Scanner s= new Scanner (system. in);
       as so next Int();
   d= b*b-4*acs
   4 (a = 0)
    of 81= (-b)/(2*a);
     system. out. pointin ("Roots are real and equal");
     System. out. print In ("Root 1 and Root 2 = "+x1);
    else if (d>0) of
    81 = (Eb) + (math. sqr+(d)))/(double)(2*a);
    82 = (Eb) - (math. 89 st(d)) / (double) (2 +a);
    System. out. prento (" Roots are real and distinct );
    System. oct. printin ("Root = "+ x1 + " Rootz = 11+80);
```

```
else if (dco) ;
 System. out. println ("Rooks are imaginary");
 81=(-b)/(2*a);
 $2 = Math. sqx+ (-d)/(z*a);
 System. out. println(" poot = " + 81 + " - 1" + 82); &
 94
class Quadratic Main?
    Public static void main (string angecs) }
       Public static void main (etring angs[]) $
           quadratic q=new Quadrotic();
        System. Ow. println ("USN = $023 BMS 02586 Name
                          = Santhosh s");
           9. get d();
           9. compute ();
    Enter the coefficients a, b, and c
 output :-
     2
    roots are maginary
     Root 1 = 0-0+10.0 - 12+1084852
Root 3 = -12+1084852
     USN = 2023BM S02586 Name - Santhosh S
   Enter the coefficients a, b and c:
   roots are real and distinct
   Root 1 = 2.0 and Root2=1.0
```

```
Enter the coefficients of a, b and a
nota quadrotic value
Enter a coe non zero value for o;
ROOB are imaginary
Root 1 = 0.0
800+2= 0.96824583
 Enter the coefficients of a, band c
 3
 Roots are imaginary
 ROO+2= 1.19895788
```