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|  | **DEPARTMENT OF FIRST YEAR ENGINEERING** |

**Experiment No. 2**

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| Semester | F.E. Semester II – First Year Engineering |
| Subject | C Programming (FEL204) |
| Subject Professor In-charge | Prof. Sanjeev Dwivedi Sir |
| Assisting Teachers | Prof. Sneha Annappanavar |

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| Student Name | Deep Salunkhe |
| Roll Number | 21102A0014 |

**Title:**

**Program Code:**

#include<stdio.h>

#include<math.h>

int main()

{

    int a,b,c;

    float d,r1,r2,x,y;

    printf("Enter coefficients of the  quadratic equation:");

    scanf("%d%d%d",&a,&b,&c);

    d=b\*b-4\*a\*c;

    if(d>0)

    {

        printf("\nReal roots and unique roots");

        r1=(-b+sqrt(d))/(2\*a);

        r2=(-b-sqrt(d))/(2\*a);

        printf("\nRoot1=%f and Root2=%f",r1,r2);

    }

    else if(d<0)

    {

        printf("\n Roots are Complex Roots");

    }

    else

    {

        printf("\nEqual roots");

        r1=r2=-b/(2\*a);

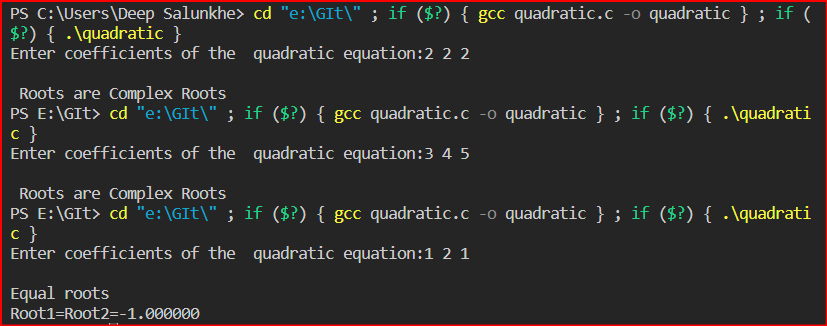
        printf("\nRoot1=Root2=%f",r1);

    }

    return 0;

}

**Output:**

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