LAB-4-EVALUATION PROGRAMS

PROGRAM-1-ROOTS OF QUADRATIC EQUATION

```
#include<stdio.h>
#include<math.h>
void main()

{
   int a;
   int b;
   int c;
   int c;
   double i;
   double j;
   int denominator;
   printf("Enter the values of a,b,c = ");
   scanf("$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\frac{1}{2}$\fr
```

OUTPUT:

```
Enter the values of a,b,c = 3 4 5
The roots are Imaginary
Roots = 0.000000 0.0000000
Process returned 50 (0x32) execution time : 46.019 s
Press any key to continue.
```

```
Enter the values of a,b,c = 1 7 12
The roots are Real and distinct
Roots = -3.000000 -4.000000
Process returned 60 (0x3C) execution time : 7.392 s
Press any key to continue.
```

```
Enter the values of a,b,c = 1 -2 1
The roots are Real and Equal
Roots = 1.000000
Process returned 46 (0x2E) execution time : 6.182 s
Press any key to continue.
```

PROGRAM-2-SMALLEST INTEGER USING CONDITIONAL OPERATOR

```
// SMALLEST INTEGER USING CONDITIONAL OPERATOR
#include<stdio.h>
void main()

{
  int a,b,c;
  int s;
  printf("Enter three numbers = ");
  scanf("%d%d%d",&a,&b,&c);
  s=a<b?(a<c?a:c):(b<c?b:c);
  printf("Smallest number = %d",s);
  return 0;
}</pre>
```

OUTPUT:

```
Enter three numbers = 23 45 12
Smallest number = 12
Process returned 20 (0x14) execution time : 19.731 s
Press any key to continue.
```

```
Enter three numbers = 4 9 6

Smallest number = 4

Process returned 19 (0x13) execution time : 10.293 s

Press any key to continue.
```

```
Enter three numbers = 45 10 86

Smallest number = 10

Process returned 20 (0x14) execution time : 14.143 s

Press any key to continue.
```