```
Roll No. 161210025
a               b               x               f(x)
0               2               0               -10
0.833333        2               0.833333        -6.64352
1.20879         2               1.20879         -2.38904
1.32413         2               1.32413         -0.665156
1.35478         2               1.35478         -0.171664
1.3626          2               1.3626          -0.043428
1.36457         2               1.36457         -0.0109286
1.36506         2               1.36506         -0.00274868
1.36519         2               1.36519         -0.000691759
1.36522         2               1.36522         -0.000176012
Approximated root is 1.365
```

```
Roll No. 161210025
Your number: 1.Integer  2.Decimal
Enter choice: 1
Enter the no. of digits in your number: 4
Enter the array of numbers: 3
2
1
5
Enter the no. of significant digits you want to round off to: 2
32*10^2
```

```
Roll No. 161210025
Enter the true value: 34.567
Enter the truncated or rounded off value: 34.5
Enter your choice
1.Absolute Error
2.Relative Error
3.Percentage Error
4.Exit
1
Absolute error is:0.067
2
Relative error is:0.00193826
3
Percentage error is:0.193826
4
Exiting..
```

```
Roll No. 161210025
a               b               x               f(x)
2.34688         2.5             2.34688         -1.66346
2.37607         2.5             2.37607         -0.125837
2.37824         2.5             2.37824         -0.0092685
2.3784          2.5             2.3784          -0.000681316
2.37841         2.5             2.37841         -5.00753e-005
2.37841         2.5             2.37841         -3.6804e-006
2.37841         2.5             2.37841         -2.70499e-007
2.37841         2.5             2.37841         -1.98809e-008
2.37841         2.5             2.37841         -1.46121e-009
2.37841         2.5             2.37841         -1.0741e-010
2.37841         2.5             2.37841         -7.89119e-012
2.37841         2.5             2.37841         -5.77878e-013
2.37841         2.5             2.37841         -5.20851e-014
2.37841         2.37841         2.37841         1.96128e-014
Approximated root is 2.378
```

```
Roll No. 161210025
Enter the no. of digits in your number: 4
Enter the array of numbers
1
4
5
2
Enter the no. of significant digits you want to truncate to: 3
145
```

```
Roll No. 161210025
Your number: 1.Integer  2.Decimal
Enter choice: 2
Enter the number: 12.345
Enter the no. of the significant digits after decimal point: 2
The rounded off no. is 12.35
```

```
Roll No. 161210025
Enter Trail Root: 0.3
Root after 1th iteration is: 0.34652
Root after 2th iteration is: 0.347296
Root after 3th iteration is: 0.347296
```

```
Roll No. 161210025
Enter Trail Root: 0
Root after 1th iteration is: 0.5
Root after 2th iteration is: 0.566311
Root after 3th iteration is: 0.567143
Root after 4th iteration is: 0.567143
```