



## **KIST COLLEGE & SS**

Kamalpokhari, Kathmandu



*Lab Report Of Numerical Method*

*Subject Code Number: **BIT201HS***

**Submitted by:**

**Prajwal Bhattarai**

**BIT Third Semester**

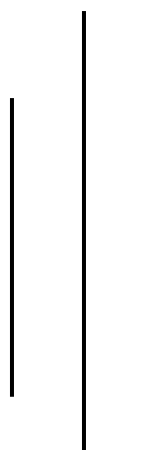
**Submitted To:**

**Rishav Acharya**



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**Submitted by:**

**Bigyan Shrestha**

**BIT Third Semester**

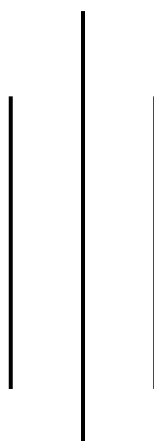
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**Submitted by:**

**Sandesh Khadka**

**BIT Third Semester**

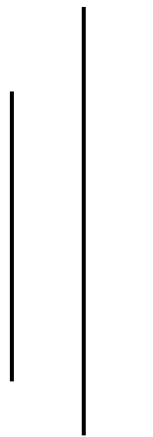
**Submitted To:**

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**Submitted by:**

**Dinesh Bajagain**

**BIT Third Semester**

**Submitted To:**

**Rishav Acharya**

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The output of the program is:

```
D:\All programmes\Bigyan\NMV × + ▾
Enter two initial guesses:0
1
iteration    x1        f(x1)      x2        f(x2)      x0        f(x0)      E
1           0.000      1.000      1.000     -1.000      0.500     -0.375     0.500
2           0.000      1.000      0.500     -0.375      0.250     0.266     0.250
3           0.250      0.266      0.500     -0.375      0.375     -0.072     0.125
4           0.250      0.266      0.375     -0.072      0.313     0.093     0.063
5           0.313      0.093      0.375     -0.072      0.344     0.009     0.031
6           0.344      0.009      0.375     -0.072      0.359     -0.032     0.016
7           0.344      0.009      0.359     -0.032      0.352     -0.011     0.008
8           0.344      0.009      0.352     -0.011      0.348     -0.001     0.004
9           0.344      0.009      0.348     -0.001      0.346     0.004     0.002
10          0.346      0.004      0.348     -0.001      0.347     0.002     0.001

Root is: 0.347
=====
Process exited after 10.56 seconds with return value 0
Press any key to continue . . . |
```

The output of the program is:

```
D:\All programs\Bigyan\NV x + v
Enter initial guess:0.5

Step  x0      f(x0)  fd(x0)  x1      E
1      0.5000  -0.3776  3.4794  0.6085  0.1783
2      0.6085  0.0051  3.5717  0.6071  0.0023
3      0.6071  0.0000  3.5705  0.6071  0.0000

Root is: 0.6071
-----
Process exited after 6.007 seconds with return value 0
Press any key to continue . . .
```

The output of the program is:

```
D:\All programmes\Bigyan\NV x + v - □ x
Enter initial guesses:-1
-2

Step  x0      f(x0)      x1      f(x1)      x2      E
1     -1.0000  3.0000    -2.0000  -35.0000   2.2818  -1.0789  0.8537
2     -2.0000  -35.0000  -1.0789  1.6504    -1.2827  -1.1353  0.0497
3     -1.0789  2.2818    -1.1353  1.6504    -1.2827  0.1149
4     -1.1353  1.6504    -1.2827  -0.5824    -1.2442  0.0309
5     -1.2827  -0.5824   -1.2442  0.0916    -1.2495  0.0042
6     -1.2442  0.0916    -1.2495  0.0041    -1.2497  0.0002
7     -1.2495  0.0041    -1.2497  -0.0000    -1.2497  0.0000

Root is: -1.2497
-----
Process exited after 7.121 seconds with return value 0
Press any key to continue . . .
```

The output of the program is:

```
D:\All programs\Bigyan\NV  +  v
Enter the degree of the polynomial = 4
Enter a[0] = -6
Enter a[1] = 4
Enter a[2] = -3
Enter a[3] = 0
Enter a[4] = 1
Enter the point at which to evaluate the polynomial = 1
f(x)=-4.000000 at x=1.000000
-----
Process exited after 29 seconds with return value 0
Press any key to continue . . . |
```