

**Output:**

```
*****Bisection method*****
 Compiled by -> Bipana
Enter coefficients a3, a2, a1, and a0:
a3 = 0
a2 = 3
a1 = -6
a0 = 2
Enter initial guesses x0, x1 and Error precision:
x0 = 0
x1 = 1
Error(E) = 0.05
Root = 0.421875
```

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```
Process exited after 343.2 seconds with return value 0
Press any key to continue . . .
```

**Output:**

```
*****Newton Rapson method*****
Compiled by -> Bipana
Enter coefficients a3, a2, a1, and a0:
a3 = 1
a2 = 0
a1 = 5
a0 = -3
Enter initial guesses and Error precision:
x0 = 2
Error(E) = 0.05
Root= 0.564102

-----
Process exited after 22.09 seconds with return value 0
Press any key to continue . . . |
```

**Output:**

```
*****Secant method*****
Compiled by -> Bipana
Enter coefficients a3, a2, a1, and a0:
a3 = 1
a2 = 0
a1 = -1
a0 = -5
Enter initial guesses x0, x1 and Error precision:
x0 = 1
x1 = 4
Error(E) = 0.05
The root is: 1.890508
-----
Process exited after 24.49 seconds with return value 0
Press any key to continue . . . |
```

**Output:**

```
*****Fixed Point Method*****
Compiled by -> Bipana
Enter coefficients a3, a2, a1, and a0:
a3 = 1
a2 = 0
a1 = -7
a0 = 2
Enter initial guesses and Error precision:
x0 = 1
Error(E) = 0.05
Root found: 0.289455

-----
Process exited after 14.14 seconds with return value 0
Press any key to continue . . . |
```

**Output:**

```
*****Newton Raphson Method for multiple roots*****
Compiled by -> Bipana
Enter the coefficient a for x^3: 0
Enter the coefficient b for x^2: 2
Enter the coefficient c for x: 4
Enter the constant d: -10
Enter the number of initial guesses for multiple roots: 3
Enter initial guess 1: -8
Enter initial guess 2: 1
Enter initial guess 3: 6

Finding root starting with initial guess: -8.000000
Root found at x = -3.449490 after 5 iterations

Finding root starting with initial guess: 1.000000
Root found at x = 1.449490 after 3 iterations

Finding root starting with initial guess: 6.000000
Root found at x = 1.449490 after 5 iterations

-----
Process exited after 11.72 seconds with return value 0
Press any key to continue . . . |
```