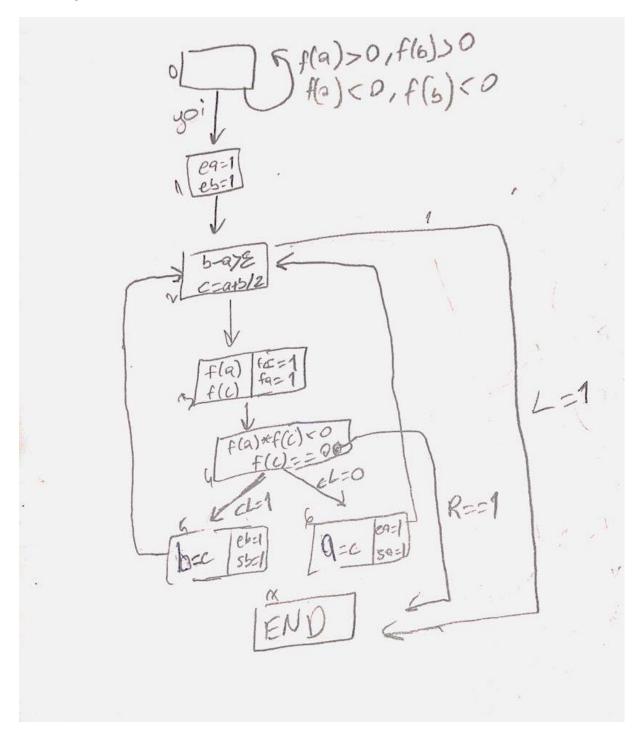
## **Project-1 Report**

C Code:

```
void bisection(double a, double b)
 if (func(a) * func(b) >= 0)
     cout << "You have not assumed right a and b\n";</pre>
     return;
 }
double c = a;
while (abs(b-a) >= EPSILON)
     // Find middle point
     c = (a+b)/2;
     // Check if middle point is root
     if (func(c) == 0.0)
         break;
     // Decide the side to repeat the steps
     else if (func(c)*func(a) < 0)
         b = c;
     else
         a = c;
 cout << "The value of root is : " << c;</pre>
```

## State Diagram:



## State Transition Table:

				,	
C2 C10		60:	1 cL	Root	1 N2 N1 NO
000	1 6	0	X	X	000
000	1 >=	1	X	×	0 0 1
001	X	X	X	X	010
010	0	X	×	X	0.11
010	11	1/	A THE PROPERTY OF THE PARTY OF	X	1 1 1
011	X		X	X	100
100	X	$\times$	X	1	1 1 1
100	X	X	1	X	1, 101
100	X	X	0	X X	1 1 0
101	X	X	X	X	010
11-0	X	X	X	X	010
111	×	X	X	7	0.00
	-		Į.		

## Expressions:

Mehmet Önder.