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| **Experiment 10:** Perform Data Flow Testing on the program for quadratic equation program. |
| **Solution:**  #include<iostream>  #include<math.h>  using namespace std;  int main()  {  int a, b, c, d, boolean = 0;  double D;  cout << endl << "Enter a coefficient: ";  cin >> a;  cout << endl << "Enter b coefficient: ";  cin >> b;  cout << endl << "Enter c coefficient: ";  cin >> c;  if ((a >= 0) && (a <= 100) && (b >= 0) && (b <= 100) && (c >= 0) && (c <= 100)) {  boolean = 1;  if (a == 0) {  boolean = -1;  }  if (boolean == 1) {  d = (b \* b) - (4 \* a \* c);  if (d == 0) {  cout << "Roots are equal";  } else if (d > 0)  {D = sqrt(d);  cout << "Roots are real";  } else  {}  else {}  D = sqrt(-d) / (2 \* a);  cout << "Roots are imaginary";  cout << "Not a quadratic equation";  } else {}  }  }  cout << "Invalid inpuy”; |