Bisection ()

Step 1: - START

Step 2: - INPUT A, B, C, E1, E2.

Step 3: - INPUT P.

Step 4: - FUNC1= A\* P ^E1 – B\* P ^ E2 + C.

Step 5: - IF FUNC1 LESS THAN ZERO THEN GOT STEP 6 ELSE GO TO STEP 10

Step 6: - PRINT FUNC1.

Step 7: - TEMP1 = 1.

Step 8: - X2 = P.

Step 9: - GO TO STEP 12.

Step 10: - PRINT FUNC1.

Step 11: - TEMP1 = 0.

Step 12: - X1 = P.

Step 13: - X2 = P.

Step 14: - INPUT Q.

Step 15: - FUNC2= A\* Q ^E1 – B\* Q ^ E2 + C.

Step 16: - IF FUNC2 LESS THAN ZERO GO TO STEP 17 ELSE GO TO STEP 21.

Step 17: - PRINT FUNC2.

Step 18: - TEMP2 = 1.

Step 19: - X2 = Q.

Step 20: - GO TO STEP 24.

Step 21: - PRINT FUNC2.

Step 22: - TEMP2 = 0.

Step 23: - X1 = Q.

Step 24: - IF TEMP1 = TEMP2 THEN GO TO STEP 25 ELSE GO TO STEP 33.

Step 25: - CHOICE = 1.

Step 26: - INPUT CHOICE1.

Step 27: - IF CHOICE1= ’ Y ’ THEN GO TO STEP 28 ELSE GO TO STEP 31.

Step 28: - PRINT “THE EQUATION HAVE NO ROOT BETWWEN THE INTERVAL OF P AND Q “.

Step 29: - CHOICE = 0.

Step 30: - GO TO STEP 48.

Step 31: - CHOICE = 1.

Step 32: - GO TO STEP 47.

Step 33: - CHOICE = 0.

Step 34: - J = 1.

Step 35: - IF J LESS THAN 9 THEN GO TO STEP 36 ELSE GO TO STEP 46.

Step 36: - X0 = (X1 + X2)/2.

Step 37: - FUNC0 = A.X0^E1 – B.X0^E2 + C.

Step 38: - IF FUNC0 IS LESS THAN ZERO THEN GO STEP 39 ELSE GOTO STEP 40.

Step 39: - X2 = X0.

Step 40: - IF FUNC0 GREATER THAN ZERO THEN GO TO STEP 41 ELSE GO TO 42.

Step 41: - X1 = X0.

Step 42: - IF FUNC0 IS EQUAL TO 0 THEN GO TO STEP 43 ELSE GO TO STEP 44.

Step 43: - J=9.

Step 44: - J = J+1.

Step 45: - GO TO STEP 35.

Step 46: - PRINT X0.

Step 47: - IF CHOICE = 0 GO TO STEP 48 ELSE GO TO STEP 12.

Step 48: - STOP.

About US ()

Step 1: - START.

Step 2: - PRINT” ------------ABOUT US-------”.

Step 3: - PRINT” NAME: - ANURAJ ANAND SINGH & ADEETHA MITRA.

CLASS: - 12.

PHONE NUMBER: -\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.

SCHOOL: - BALLYGUNGE GOVT. HIGH SCHOOL

THANK YOU.”

Step 4: - STOP.

MAIN ()

Step 1: - START.

Step 2: - PRINT” 1. BISECTION

2. ABOUT US

3. EXIT

Step 3: - INPUT CHOICE.

Step 4: - IF CHOICE = 1 THEN CALL GO TO STEP 5 ELSE GO TO STEP 6.

Step 5: - CALL BISECTION () AND GO TO STEP 11

Step 6: - IF CHOICE = 2 THEN GO TO STEP 7 ELSE GO TO STEP 8.

Step 7: - CALL ABOUTUS() AND GO TO STEP 11

Step 8: - IF CHOICE = 3 THEN PRINT” THANK YOU “ELSE GO TO STEP 9

Step 9: - GO TO STEP 11

Step 10: - PRINT” WRONG INPUT”

Step 11: - IF CHOICE = 3 THEN GO TO STEP 12 ELSE GO TO STEP 2.

Step 12: - STOP.