**ICT**

**LAB TASK**

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TASK 1

Draw a flowchart to add two numbers entered by the user

Calculate sum = a+b

Display calculated sum

Input two number a,b

Task 2

Algorithm to calculate the roots of quadratic equations

1. Start
2. Declare variables a, b, c, D,
3. Calculate the discriminant D <
4. Verify D>=0
   1. If D>=0
      1. Assign
         1. (-b+)/ 2a
         2. (-b+)/ 2a
   2. Else
      1. Assign
      2. And
   3. Display
   4. Stop

Task 3

**Input target value and array of elements**

**If element =target value**

**return target value not found**

**return the index of targeted value**

**NO**

**YES**

**Search next value if exists**

**yes**

**NO**

Task 4

**Start=first element**

**End = last element**

**Start<=end**

**Middle = (start+end)/2**

**Array[mid] = target value**

**Array[mid]<target value**

**Start=mid+1**

**End=mid-1**

**Return index of target value**

**Target value not found**

NO

YES

YES

NO

YES

NO

TASK 5

**Input array , size of array N, j=0 , i=0(number of iterations)**

**array[j]>**

**array[j+1}**

**Swap array[j] and array[j+1]**

**Increment j**

**J++**

NO

**YES**

**J<N-i-1**

**Clear j**

**J=0**

**Increment i**

**i++**

**i<N-1**

**Array is sorted**

yes

YES

NO

NO