BinarySearch Algorithm

```
Int a[5] ={10,20,30,40,50]     Take one array with any size *** Array should be in Sorted order
L = 0 , h = 4 ,f = 0 , mid , item   define lowest ,highest indexes and mid , f and item those are variable
Item = input   take the iteam as user input for searching in array
While ( l <= h )  compare lowest and highest indexes then
{
     Mid = ( l + h )/2  finding the middle element using this formula
     If (a[mid] == item ) compare middle element with item ……..(1)
     {
         F = 1   if the above condition meets then declare f = 1
        Break   Break the loop and exit from the loop
     }
    If a[mid] >  item )  if the above condition not meets then check  array[middle]  > item……..2
      {
          L = mid + 1  set lowest = middle + 1
      }
   Else
      {
        H = mid – 1 condition 2 not meets then declare highest = middle - 1
       }
} continue this while loop upto where condition fails and then

If ( f == 1 ) check weather the item has founded or not
{
 Item found with the location ( mid ) if founded then print
}
Else
{
 Item not found  not founded then send a message
}
```