BINARY SEARCH PROGRAM ADA

PROGRAM:-

```
#include <stdio.h>
#include <conio.h>
int main()
  int c, first, last, middle, n, search, array[100];
 printf("Enter number of elements\n");
 scanf("%d", &n);
 printf("Enter %d integers\n", n);
 for (c = 0; c < n; c++)
   scanf("%d", &array[c]);
 printf("Enter value to find\n");
  scanf("%d", &search);
 first = 0;
  last = n - 1;
 middle = (first+last)/2;
 while (first <= last) {</pre>
   if (array[middle] < search)</pre>
      first = middle + 1;
    else if (array[middle] == search) {
      printf("%d found at location %d.\n", search, middle+1);
      break;
    else
      last = middle - 1;
```

```
}
else
last = middle - 1;

middle = (first + last)/2;
}
if (first > last)
   printf("Not found! %d isn't present in the list.\n", search);

return 0;
}
```

EXECUTION(OUTPUT):-

```
Enter number of elements

5
Enter 5 integers

10 20 30 40 50
Enter value to find

40
40 found at location 4.
```