

EXPERIMENT NO.2a

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Source Code:

```
#include <stdio.h>

int
main()
{
    int i, low, high, mid, n, key,
    array[30];
    printf("Enter number of
    elements= "); scanf("%d",&n);
    printf("Enter %d integers\n",
    n);
    for(i = 0; i < n; i++)
        scanf("%d",&array[i]);
    printf("Enter value to find
    \n");
    scanf("%d", &key);
    low = 0;
    high = n - 1;
    mid =
    (low+high)/2;
    while (low <= high)
    {
        if(array[mid] <
        key)
            low = mid + 1;
        else if (array[mid] ==
        key) {
```

```
printf("%d found at location %d\n", key,
mid+1);
break;
}
else
high = mid - 1;
mid = (low +
high)/2;
}
if(low >
high)
printf("Not found!
");
return 0;
}
```

Output:

Enter number of elements=5

Enter 5 integers

26,43,57,49,19

Enter value to find

57

57 found at location 3