

Practicle No:-2

2. Write a program for perform Binary Search

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int item;
    printf("Enter a Item:");
    scanf("%d",&item);
    int loc,b=0;
    int A[]={10,20,30,40,50};
    int mid;
    loc=15;
    int e=4;
    while (b<=e)
    {
        mid=(b+e)/2;
        if(item==A[mid]){
            loc=mid;
            break;

        }
        else if(item>A[mid]){
            b=mid+1;

        }
        else{
            e=mid-1;
        }
    }
    if(loc==15){
        printf("Your item Not found in Arry.....!\n");
    }
    else{
        printf("Your item found ,item=%d\n",A[loc]);
        printf("And item loacation =%d\n",loc);
    }
    return 0;
}
```