/*bianary search by func*/

```
#include<stdio.h>
void search(int a[],int n1);
int main()
{
        int n,i,temp,j;
printf("enter the value of n\n");
scanf("%d",&n);
int a[n];
printf("enter the values of array\n");
for(i=0;i<n;i++)
{
scanf("%d",&a[i]);
}
for(i=0;i<n;i++)
{
for(j=i+1;j<n;j++)
{
if(a[i]>a[j])
{
temp=a[i];
a[i]=a[j];
a[j]=temp;
 }
}
}
printf("sorted array\n");
for(i=0;i<n;i++)
{
printf("%d\n",a[i]);
}
```

```
search(a,n);
return 0;
}
void search(int a1[],int n1)

{
        int mid,key,first,last,i;
        first=0;
last=n1-1;
printf("enter the value of key\n");
scanf("%d",&key);
mid=(first+last)/2;
while (first<=last)
{
        if(a1[mid]<key)
        {
                first=mid+1;
        }
        else if(a1[mid]==key)
        {
                printf("%d is found at aposition %d\n",key,mid+1);
                break;
        }
        else
        {
                last=mid-1;
                mid=(first+last)/2;
        }
        mid=(first+last)/2;
        if(first>last)
        {
```

```
                printf("value not found");
        }


}

}
```