

//WAP to input elements and search an element using pointer.

/*Algorithm:

1.input the elements of array

2.search the element in the array

3.print it's found if number your searching for and not found if it's no there. */

```
#include<stdio.h>                //include standard input and output header file using preprocessor directive
int main()                        //start main()
{
    setbuf(stdout,NULL);
    int arr[10],n,i,s_element,cnt=0;
//declare an integer array, n - max no.of elements, i - index referencing, s_element for element to search and cnt.

    int *ptr;                    //declare a pointer
    ptr=arr;                     //assign address of array arr to ptr variable.
    printf("enter the no.of elements of array:\n");
    scanf("%d",&n);              //input the no.of elements to be entered
    printf("Enter Elements of Array\n");
    for(i=0;i<n;i++)
    {
        scanf("%d",ptr+i);      //input the elements of array using pointer
    }
    printf("Enter the element to search:\n");
    scanf("%d",&s_element);      //input the element to search in the array
    for(i=0;i<n;i++)
    {
        if(*(ptr+i)==s_element) //print if the element is found in array
        {
            printf("%d is found at %d bit position\n",*(ptr+i),i);
            cnt++;
        }
    }
    if(cnt==0 && i==n-1)         //if the element searching for is not found, print the below statement.
    {
        printf("%d not found\n",s_element);
    }
}
```