**LINEAR SEARCH**

ALGORITHM:

STEP 1: A[n],key,pos=0,i=0,found=0;

STEP 2: while(i<=n)

STEP 3: if(A[i]==key) then

STEP 4: print “successful at position”

STEP 5: pos=i;

STEP 6: print pos

STEP 8: found=1

STEP 9: end if

STEP 10: i=i+1

STEP 11: end while

STEP 12: if(found==0) then

STEP 13: print”fail”

STEP 14: end if

STEP 15: exit

**PROGRAM**

#include<conio.h>

#include<stdio.h>

int main()

{ int i,found=0,pos=0,key,n,A[100];

clrscr();

printf("enter the no.-");

scanf("%d",&n);

printf("enter the array");

for(i=0;i<n;i++)

{ scanf("%d",&A[i]);

}

printf("enter the noo to search");

scanf("%d",&key);

for(i=0;i<n;i++)

{ if(key==A[i])

{ pos=i;

printf("success at pos %d",pos);

found=1;

}

}

if(found==0)

{printf("unsuccess");

}

getch();

}