**DAA Lab (CS 14.351)**

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**Section:A2**

**1. Write an algorithm and program to implement Linear Search.**

**i)Using arrays**

* PROGRAM

#include <conio.h>

#include <stdio.h>

void main()

{ int num;

int i, keynum, found = 0;

printf("Enter the number of elements ");

scanf("%d", &num);

int array[num];

printf("Enter the elements one by one \n");

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

{

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

}

printf("Enter the element to be searched ");

scanf("%d", &keynum);

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

{

if (keynum == array[i] )

{

found = 1;

break;

}

}

if (found == 1)

printf("Element is present in the array at position %d",i+1);

else

printf("Element is not present in the array\n");

getch();

}

* OUTPUT

