**TERM WORK 2.1:**

#include <stdio.h>

#include <stdlib.h>

#include<time.h>

#define MAX 2000

void getdata(int arr[])

{

int i;

//Generating random numbers

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

{

arr[i]=rand();

printf("%d\n",arr[i]);

}

}

int main()

{

int item,pos,flag=0;

int arr[MAX];

clock\_t start1=0,end1=0;

getdata(arr);

start1=start1+clock();

printf("\nEnter the element to be searched:");

scanf("%d",&item);

for(int i=0;i<MAX;i++)

{

if(item==arr[i])

{

pos=i;

flag=1;

break;

}

}

if(flag==1)

printf("\nThe element is in the list and its position is %d\t",pos+1);

else

printf("Element is not found.");

end1=end1+clock();

printf("Time taken is=%f\n",((float)(end1-start1))/CLOCKS\_PER\_SEC);

return 0;

}