



DAA LAB-1

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Q1.

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int n , m , s ;
    printf("Enter the length of array :- ");
    scanf("%d",&n);
    int A[n];
    printf("\nEnter the elements :-");
    for(int i =0 ; i<n ; i++){
        scanf("%d" , &A[i]);
    }
    printf("\nEnter the number to search :- ");
    scanf("%d" , &m);
    for(int i=0 ; i<n ;i++){
        if(A[i]==m){
            s=i;
        }
    }
    printf("\n The highest index is :- %d " , s);
    return 0;
}
```

Q2.

```
#include<stdio.h>
void find(int arr[], int n,int key)
{
    for (int i = 0; i < n - 1; i++) {
        for (int j = i + 1; j < n; j++) {
            if ((arr[i]*arr[i]) + (arr[j]*arr[j]) == key)
                printf("The indices are: i=%d j=%d",i,j);
        }
    }
}
int main(){
    int A[] = {1,2,3,4,5};
    int n =5;
    int arr_size = sizeof(A) / sizeof(A[0]);
    find(A, arr_size, n);
    return 0;
}
```

Q3.

```
#include <stdio.h>
int main()
{
    int n;
    printf("Enter no of eles\n");
    scanf("%d",&n);
    int target;
    printf("Enter the key\n");
    scanf("%d",&target);
    int a[n];
    printf("Enter the eles\n");
    for(int i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    int i=0,j,k;
    for (i = 0; i < n; i++)
    {
        j = i + 1; k = n - 1;
        while (j < k)
        {
            int cur = a[i] + a[j] + a[k];
            if (cur == target){
                printf("The indices are: i=%d j=%d k=%d",i,j,k);
            }
            if (cur < target)
                j++;
            else
                k--;
        }
    }
    return 0;
}
```

Q4.

```
#include<stdio.h>
void main()
{
    int n;
    printf("Enter size:");
    scanf("%d",&n);
    int a[n];
    for(int i=0;i<n;i++)
        scanf("%d",&a[i]);
    for(int i=0;i<n-1;i++)
        if(a[i]>a[i+1])
        {
            printf("Value : %d",i);
            break;
        }
}
```