TRAVERSING, INSERTION, DELETION

-----IN C+-----

```
#include<iostream>
using namespace std;
//TRAVERSING
void TRAVERSING(int size,int HARSHIDA[],int i)
    cout<<"The elements in the array is as follows="<<endl<<"[";</pre>
    for (i=0;i<size;i++)</pre>
        cout<<HARSHIDA[i]<<" ";</pre>
    cout<<"]";
//INSERTION
void INSERTION(int size,int ARR[],int i)
    int index;
    cout<<"Enter the index where the element is to be inserted="<<end1;</pre>
    cin>>index;
    int element;
    cout<<"Enter the element which is to be inserted="<<endl;</pre>
    cin>>element;
    for (i=size-1;i>=index;i--)
        ARR[i+1]=ARR[i];
    ARR[index]=element;
    size++;
    cout<<"Let's check!"<<endl;</pre>
    cout<<"[";
    for (i=0;i<size;i++)</pre>
        cout<<ARR[i]<<" ";</pre>
    cout<<"]";
//DELETION
void DELETION(int size,int ARR[],int i)
    int index;
```

```
cout<<"Enter the index where the element is to be deleted="<<endl;</pre>
    cin>>index;
    for
          (i=index;i<size;i++)</pre>
        ARR[i]=ARR[i+1];
    size--;
    cout<<"Let's check!"<<endl;</pre>
    cout<<"[";</pre>
    for (i=0;i<size;i++)</pre>
        cout<<ARR[i]<<" ";</pre>
    cout<<"]";
int main
          ()
    int size,i;
    cout<<"Enter the size of the array="<<endl;</pre>
    cin>>size;
    int ARR[size];
    cout<<"Enter the elements in the array="<<endl;</pre>
    for
          (i=0;i<size;i++)
        cin>>ARR[i];
   int condition;
   cout<<"Enter the condition where we need to switch=1.For Traversing,2.For I</pre>
nsertion,3.For Deletion."<<endl;</pre>
   cin>>condition;
   switch(condition)
       case 1:
       TRAVERSING(size,ARR,i);
       break;
       case 2:
       INSERTION(size,ARR,i);
       break;
       case 3:
       DELETION(size,ARR,i);
       break;
       default:
       cout<<"Invalid Condition."<<endl;</pre>
       break;
    return 0;
```


IN C LANGUAGE

-----For insertion-----

```
#include<stdio.h>
#include<conio.h>
void main()
{
int n;
printf("\n Enter the size of array:");
 scanf("%d",&n);
 int a[n],loc,i,item;
 printf("\nEnter array elements:\n");
 for(i=1;i<=n;i++)
  {
  scanf("%d",&a[i]); }
  printf("\n Entered Array elements are :\n");
```

```
for(i=1;i<=n;i++)
 printf("%d\t",a[i]);
printf("\n Enter the position where we want to insert the element:");
scanf("%d",&loc);
printf("\n Enter the item to be inserted:");
scanf("%d",&item);
int ctr=n;
n=n+1;
while (ctr>=loc)
{
 a[ctr+1]=a[ctr];
 ctr--;
}
a[loc]=item;
```

```
printf("\n ArrAY AFTER INSERTION is:\t");
 for (i=1;i<=n;i++)
 printf("%d\n",a[i]);
 }
-----FOR DELETION-----
#include<stdio.h>
#include<conio.h>
void main()
{
 int n;
 printf("\n Enter the size of array:");
 scanf("%d",&n);
 int a[n],loc,i,item;
 printf("\nEnter array elements:\n");
```

```
for(i=1;i<=n;i++)
{
 scanf("%d",&a[i]); }
 printf("\n Entered Array elements are :\n");
 for(i=1;i<=n;i++)
 printf("%d\t",a[i]);
printf("\n Enter the position where we want to delete the element:");
scanf("%d",&loc);
 int ctr=n;
while (loc<=ctr)
{
 a[loc]=a[loc+1];
 loc++;
```

```
n=n-1;

printf("\n ArrAY AFTER DELETION is:\t");

for (i=1;i<=n;i++)

printf("%d\t",a[i]);

}
```