1. ***Static Array Program Which Include Insertion ,Insert element at Specific Location ,Delete Element at the Specific Location, Get Element At any Location of An Array.***

**Array problems in c++**

**#include <iostream>**

**#include <stdlib.h>**

**using namespace std;**

**class Array**

**{**

**private:**

**int a[100];**

**int size=0;**

**public :**

**void insert(int index,int val)**

**{**

**for(int i=index; i<=index; i++)**

**{**

**a[size]=val;**

**size++;**

**}**

**}**

**void specific(int k,int val)**

**{**

**// cout<<"hii i am at the Specific function "<<k<<" " <<val <<" "<<size;**

**size++;**

**for(int i=(size+1); i>(k-1); i--)**

**{**

**a[i]=a[i-1];**

**}**

**a[k-1]=val;**

**}**

**void getter()**

**{**

**for(int i=0; i<size; i++)**

**{**

**cout<<" "<<a[i];**

**}**

**cout<<endl;**

**}**

**int getelement(int t)**

**{**

**return a[t-1];**

**}**

**void deleteElement(int index){**

**size--;**

**for(int i=(index-1);i<size;i++)**

**{**

**a[i]=a[i+1];**

**}**

**}**

**};**

**int main()**

**{**

**Array a1;**

**int x,y;**

**cout<<"Enter size of an array";**

**cin>>x;**

**while(1)**

**{**

**cout<<endl;**

**cout<<"1 . insert Element into the array\n";**

**cout<<"2 . insert Element Specific location in the array\n";**

**cout<<"3 . Delete Element Specific location in the array\n";**

**cout<<"4 . Get Element Specific location in the array\n";**

**cout<<"5 . Get All Element in the array\n";**

**cout<<"6 . Exit From The Program\n";**

**cout<<"7 . clear the Entire Screen\n";**

**cin>>y;**

**switch(y)**

**{**

**case 1:**

**int a;**

**for(int i=0; i<x; i++)**

**{**

**cout<<"Enter "<<i+1 <<"value of to insered "<<" ";**

**cin>>a;**

**a1.insert(i,a);**

**}**

**break;**

**case 2:**

**int t,val;**

**cout<<"Enter The Specific Location of the Array";**

**cin>>t;**

**cout<<"Enter the value to be inserted";**

**cin>>val;**

**a1.specific(t,val);**

**break;**

**case 3:**

**int index;**

**cout<<"Enter the Index value you want to Deleted ";**

**cin>>index;**

**a1.deleteElement(index);**

**break;**

**case 4:**

**int j;**

**cout<<"Enter the Index of an Array ";**

**cin>>t;**

**cout<<"The Element at current Location is "<<a1.getelement(t);**

**break;**

**case 5:**

**a1.getter();**

**break;**

**case 6:**

**exit(1);**

**case 7:**

**system("cls");**

**break;**

**default:**

**cout<<"\nEnter valid Number";**

**}**

**}**

**}**

**.**