ARRAY OPERATIONS

CODE:

```
#include<stdio.h>
#include<conio.h>
void main()
{
  int n,a[50],pos,i,x,choice,item;
  printf("\n Enter the size:");
  scanf("%d",&n);
  printf("\n Enter the elements \n");
  for(i=0;i<n;i++)
  {
    scanf("%d",&a[i]);
  }
  printf("\n Array Operations:");
  printf("\n 1.Array Insert \n");
  printf("\n 2.Array Delete \n");
  printf("\n 3.Array Traverse \n");
  printf("\n 4.Array Search");
  printf("\n Enter the choice:");
  scanf("%d",&choice);
  switch(choice)
  {
  case 1:
    {
```

```
printf("\n Enter element and position to be Insert at:");
    scanf("%d %d",&x,&pos);
    pos--;
    for(i=n;i!=pos;i--)
       a[i]=a[i-1];
       a[i]=x;
    for(i=0;i<=n;i++)
    {
       printf("\n %d",a[i]);
    }
  }
case 2:
  {
    printf("\n Enter element and position to be Delete at:");
    scanf("%d %d",&x,&pos);
    pos--;
    for(i=0;i<n;i++)
    {
       if(i>pos)
         a[i]=a[i+1];
    }
    for(i=0;i<n;i++)
       if(a[i]!=0)
    printf("\n %d",a[i]);
  }
case 3:
```

```
{
    printf("\n Traversal \n -----\n\n the element are:");
    for(i=0;i<n;i++)
     printf("%3d",a[i]);
  }
case 4:
  {
    printf("\n Enter the element to be Searched item:");
    scanf("%d",&item);
    for(i=0;i<n;i++)
       if(a[i]==item)
     printf(" element is found");
  }
default:
  printf("\n Invalid Option:");
  }
  getch();
}
```

OUTPUT