

```

1  #include<iostream>
2  #define MAX 100
3  using namespace std;
4  class Array
5  {
6  private:
7      int a[MAX],len=0;
8  public:
9      void insert_begi(int val)
10     {
11         if(len>=MAX)
12         {
13             cout<< "Array full ...!"<<endl;
14             return;
15         }
16         int i;
17         for(i=len-1; i>=0; i--)
18             a[i+1]=a[i];
19         a[0]=val;
20         len++;
21     }
22     void append(int pos,int val)
23     {
24         if(pos>len)
25         {
26             cout<< "Invalid position ..!"<<endl;
27             return ;
28         }
29         int i;
30         for(i=len-1; i>=pos; i--)
31             a[i+1]=a[i];
32         a[pos]=val;
33         len++;
34     }
35     void append(int val)
36     {
37         if(len>=MAX)
38         {
39             cout<< "Array full ...!"<<endl;
40             return;
41         }
42         a[len++]=val;
43     }
44     void display()
45     {
46     }
47     if(len==0)
48     {
49         cout<< "Array is empty"<<endl;
50         return;
51     }
52     int i;
53     cout<<"Data in Array \n\n";
54     for(i=0; i<len; i++)
55         cout<<a[i]<<" ";
56     cout<<"\n\n";
57 }
58 void delete_pos(int pos)
59 {
60     int i;
61     for(i=pos; i<len; i++)
62         a[i]=a[i+1];
63     len--;
64 }
65 void delete_begi()
66 {
67     int i;
68     for(i=0; i<len; i++)
69         a[i]=a[i+1];
70     len--;
71 }
72 void delete_end()
73 {
74     if(len==0)
75     {
76         cout<< "Array is empty ....!"<<endl;
77         return ;
78     }
79     a[len-1]=0;
80     len--;
81 }
82 void delete_all()
83 {
84     {

```

```

85
86     int i;
87     for(i=0; i<len; i++)
88         a[i]=0;
89     len=0;
90     cout<< "All data in array are deletd \n"<<endl;
91 }
92 };
93 int main()
94 {
95     Array a;
96     a.append(4);
97     a.append(7);
98     a.append(8);
99     a.append(22);
100    a.append(9);
101    a.append(19);
102    a.append(31);
103    a.append(2,6);
104    a.insert_begi(8);
105    a.delete_end();
106    a.delete_pos(3);
107    a.delete_begi();
108    a.display();
109    a.delete_all();
110    a.display();
111    return 0;
112 }
113

```