```cpp
1: #include<iostream>
2: #include<climits>
3: #include<omp.h>
4: #include<vector>
5: using namespace std;
6:
7: void min_reduction(vector<int>& arr)
8: {
9:     int min_val=INT_MAX;
10:     #pragma omp parallel for reduction(min:min_val)
11:     for(int i=0;i<arr.size();i++)
12:     {
13:         if(arr[i]<min_val)
14:             min_val=arr[i];
15:     }
16:     cout<<"\nMinimum Value: "<<min_val;
17: }
18:
19: void max_reduction(vector<int>& arr)
20: {
21:     int max_val=INT_MIN;
22:     #pragma omp parallel for reduction(max:max_val)
23:     for(int i=0;i<arr.size();i++)
24:     {
25:         if(arr[i]>max_val)
26:             max_val=arr[i];
27:     }
28:     cout<<"\nMaximum Value: "<<max_val;
29: }
30:
31: void sum_reduction(vector<int>& arr)
32: {
33:     int sum=0;
34:     #pragma omp parallel for reduction(+:sum)
35:     for(int i=0;i<arr.size();i++)
36:     {
37:         sum+=arr[i];
38:     }
39:     cout<<"\nSum Value: "<<sum;
40: }
41:
42: void avg_reduction(vector<int>& arr)
43: {
44:     int sum=0;
45:     #pragma omp parallel for reduction(+:sum)
46:     for(int i=0;i<arr.size();i++)
47:     {
48:         sum+=arr[i];
49:     }
50:     cout<<"\nAvg Value: "<<(double)sum/arr.size();
51: }
52: int main()
53: {
54:     int n;
55:     cout<<"\nEnter the total no of elements: ";
```

```cpp
56:     cin>>n;
57:     vector<int> arr(n);
58:     cout<<"\nEnter  the elements: ";
59:     for(int i=0;i<n;i++)
60:     {
61:         cin>>arr[i];
62:     }
63:     min_reduction(arr);
64:     max_reduction(arr);
65:     sum_reduction(arr);
66:     avg_reduction(arr);
67:     return 0;
68: }
```