Program Code:

```
#include <iostream>
#include <omp.h>
#include <climits>
using namespace std;
void min_reduction(int arr[], int n) {
 int min_value = INT_MAX;
 #pragma omp parallel for reduction(min: min_value)
 for (int i = 0; i < n; i++) {
       if (arr[i] < min_value) {</pre>
       min_value = arr[i];
       }
 }
 cout << "Minimum value: " << min_value << endl;</pre>
}
void max_reduction(int arr[], int n) {
 int max_value = INT_MIN;
 #pragma omp parallel for reduction(max: max_value)
 for (int i = 0; i < n; i++) {
       if (arr[i] > max_value) {
       max_value = arr[i];
 }
 cout << "Maximum value: " << max_value << endl;</pre>
}
void sum_reduction(int arr[], int n) {
 int sum = 0;
 #pragma omp parallel for reduction(+: sum)
 for (int i = 0; i < n; i++) {
       sum += arr[i];
```

```
}
 cout << "Sum: " << sum << endl;
void average_reduction(int arr[], int n) {
 int sum = 0;
 #pragma omp parallel for reduction(+: sum)
 for (int i = 0; i < n; i++) {
       sum += arr[i];
 }
 cout << "Average: " << (double)sum / (n-1) << endl;
}
int main() {
  int *arr,n;
  cout<<"\n enter total no of elements=>";
  cin>>n;
  arr=new int[n];
  cout<<"\n enter elements=>";
  for(int i=0;i<n;i++)
  {
        cin>>arr[i];
  }
 min_reduction(arr, n);
 max_reduction(arr, n);
 sum_reduction(arr, n);
 average_reduction(arr, n);
}
```

Output:

```
enter total no of elements=>5

t enter elements=>23 14 67 34 20

Minimum value: 14

Maximum value: 67

Sum: 158

Average: 39.5

Process exited after 13.65 seconds with return value 0

Press any key to continue . . . .
```