Program Code :

```cpp
#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) {
        min_value = arr[i];
        }
  }
  cout << "Minimum value: " << min_value << endl;
}

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;
}

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];
```

```cpp
  }
  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 :

```
C:\Users\hp\Documents\min_max_reduction.exe

enter total no of elements=>5

enter elements=>23 14 67 34 20
Minimum value: 14
Maximum value: 67
Sum: 158
Average: 39.5

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Process exited after 13.65 seconds with return value 0
Press any key to continue . . .
```