Assignment No.:-

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#include <iostream>
#include <vector>
#include <omp.h>
using namespace std;
int main() {
  int n;
  cout << "Enter number of elements: ";
  cin >> n;
  vector<double> arr(n);
  cout << "Enter elements: " << endl;
  for (double &x : arr) {
     cin >> x;
  }
  double min_val = arr[0], max_val = arr[0], sum = 0.0, avg = 0.0;
  #pragma omp parallel for reduction(min:min_val) reduction(max:max_val)
reduction(+:sum)
  for (int i = 0; i < n; i++) {
     if (arr[i] < min_val) min_val = arr[i];</pre>
     if (arr[i] > max_val) max_val = arr[i];
     sum += arr[i];
  }
  avg = sum / n;
  cout << "Minimum: " << min_val << endl;</pre>
  cout << "Maximum: " << max_val << endl;</pre>
  cout << "Sum: " << sum << endl;
```

```
cout << "Average: " << avg << endl;
return 0;
}</pre>
```


Enter number of elements: 5

Enter elements:

123

45

6

678

98

Minimum: 4 Maximum: 678

Sum: 798

Average: 159.