Task 1:

```cpp
1 #include <iostream>
2 #include <omp.h>
3
4 using namespace std;
5
6 int main(int argc, char* argv[])
7 {
8     int count =0;        //Initially count will be 0
9
10    #pragma omp parallel num_threads(15)        //15 threads are being used
11    {
12        #pragma omp critical
13        {
14            int temp = count;        //local variable so the changes made are not changed globally
15            temp++;
16            count = temp;        //storing changed data in global
17
18        }
19    }
20
21    cout<<"Thread count = "<<count<<endl;
22
23    cout<<"Name = Hassan Shahzad"<<endl;
24    cout<<"Roll No = 18i-0441"<<endl;
25 }
```

Code of Task 1.1

Output of Task 1.1