# PDC - Lab 1

**Aadhitya Swarnesh I**

[redacted]

**18 - July - 2020**

**Code :**

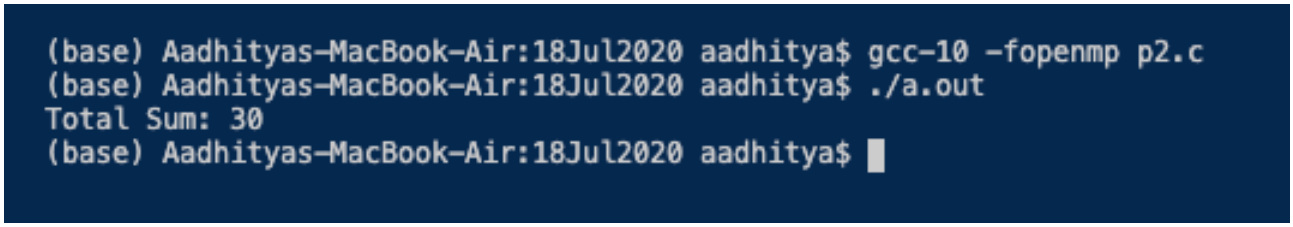
```
#include <stdio.h>
#include <omp.h>
int main()
{
    int cursum, total,n;
    int a[10]={1,2,3,4,5,1,2,3,4,5};
    n = sizeof(a)/sizeof(int);

    #pragma omp parallel private(cursum) shared(total)
    {
        cursum = 0;
        total = 0;
        #pragma omp for
            for(int i = 0; i <= n; i++)
            {
                cursum += a[i];
            }

        #pragma omp critical
        {
            total += cursum;
        }
    }
    printf("Total Sum: %d\n", total);
    return 0;
```

```
}
```

## Output :


(base) Aadhityas-MacBook-Air:18Jul2020 aadhitya$ gcc-10 -fopenmp p2.c
(base) Aadhityas-MacBook-Air:18Jul2020 aadhitya$ ./a.out
Total Sum: 30
(base) Aadhityas-MacBook-Air:18Jul2020 aadhitya$