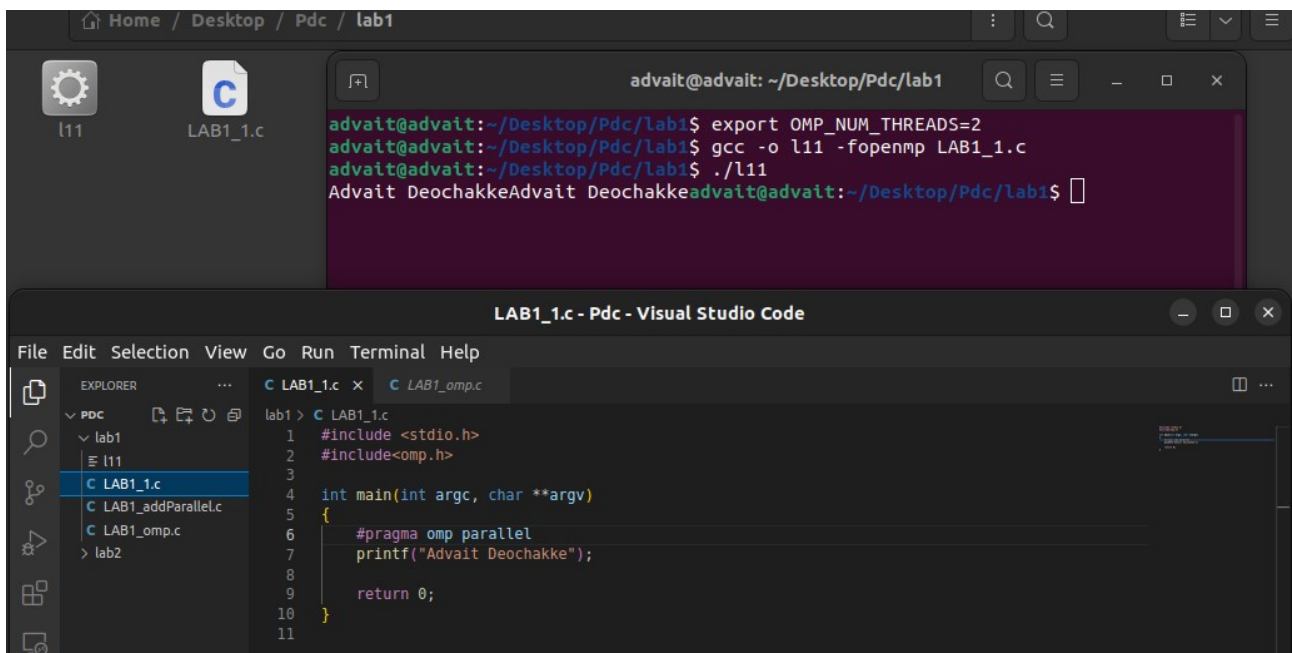


PDC Lab 1

Advait Deochakke

20BCE1143 – 27 July '22

Question 1: Print your name two times using OpenMP



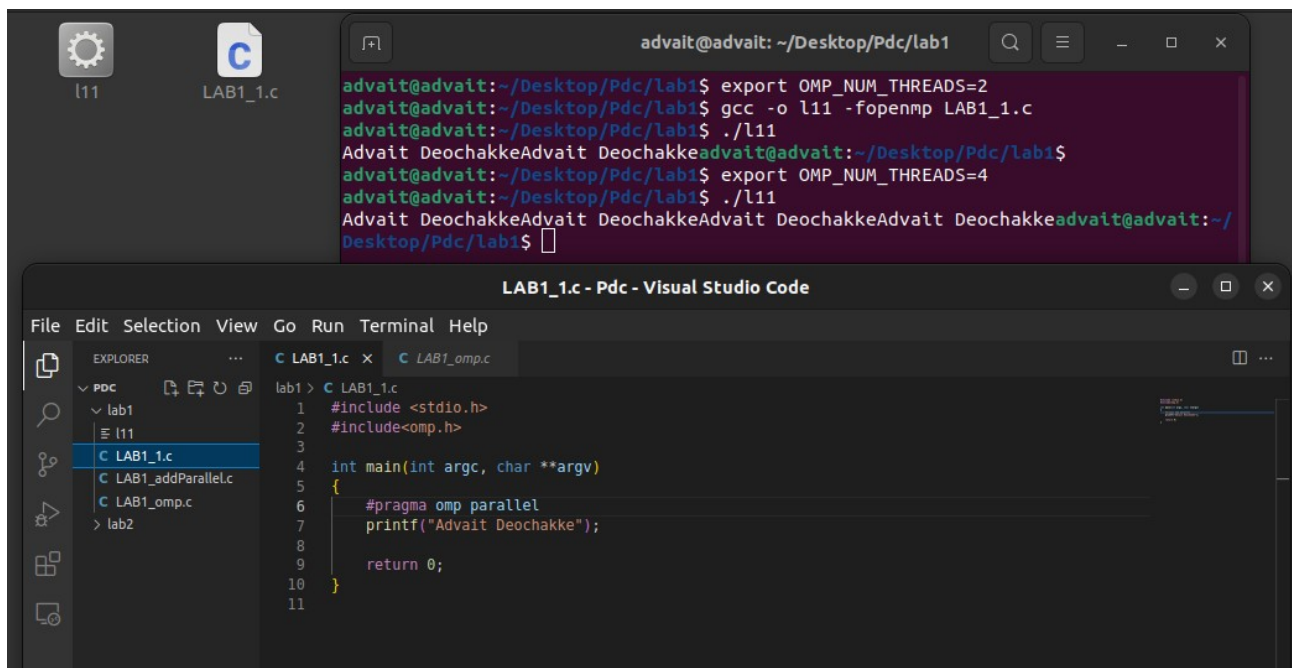
The screenshot shows a terminal window and a Visual Studio Code editor. The terminal window displays the following commands and output:

```
advait@advait: ~/Desktop/Pdc/lab1
advait@advait:~/Desktop/Pdc/lab1$ export OMP_NUM_THREADS=2
advait@advait:~/Desktop/Pdc/lab1$ gcc -o l11 -fopenmp LAB1_1.c
advait@advait:~/Desktop/Pdc/lab1$ ./l11
Advait DeochakkeAdvait Deochakkeadvait@advait:~/Desktop/Pdc/lab1$
```

The Visual Studio Code editor shows the source code for LAB1_1.c:

```
1 #include <stdio.h>
2 #include <omp.h>
3
4 int main(int argc, char **argv)
5 {
6     #pragma omp parallel
7     printf("Advait Deochakke");
8
9     return 0;
10 }
11
```

Question 2: Print your name four times using OpenMP



The screenshot shows a terminal window and a Visual Studio Code editor. The terminal window displays the following commands and output:

```
advait@advait: ~/Desktop/Pdc/lab1
advait@advait:~/Desktop/Pdc/lab1$ export OMP_NUM_THREADS=2
advait@advait:~/Desktop/Pdc/lab1$ gcc -o l11 -fopenmp LAB1_1.c
advait@advait:~/Desktop/Pdc/lab1$ ./l11
Advait DeochakkeAdvait Deochakkeadvait@advait:~/Desktop/Pdc/lab1$
advait@advait:~/Desktop/Pdc/lab1$ export OMP_NUM_THREADS=4
advait@advait:~/Desktop/Pdc/lab1$ ./l11
Advait DeochakkeAdvait DeochakkeAdvait Deochakkeadvait@advait:~/Desktop/Pdc/lab1$
```

The Visual Studio Code editor shows the source code for LAB1_1.c:

```
1 #include <stdio.h>
2 #include <omp.h>
3
4 int main(int argc, char **argv)
5 {
6     #pragma omp parallel
7     printf("Advait Deochakke");
8
9     return 0;
10 }
11
```



```
#include<omp.h>
#include <stdio.h>

int main(int argc, char **argv)
{
    int a[8]={1, 2, 3, 4, 5, 6, 7, 8};
    int b[8]={8, 7, 6, 5, 4, 3, 2, 1};
    int c[8];

    #pragma omp parallel
    {
        for(int i=0; i<8; i++)
        {
            c[i]=a[i]+b[i];
            printf("%d\n", c[i]);
        }
    }

    printf("test");
    return 0;
}
```