```
#include<stdio.h>
#include<stdlib.h>
#include<sys/time.h>
#include<omp.h>
int min(int,int);
int main()
{
    int n, k, i, j, c[10][10];
    int tid;
    omp_set_num_threads(0);
         tid=omp_get_thread_num();
         printf("Enter the number of nodes:");
         scanf("%d",&n);
         printf("Enter the cost matrix:\n");
         for(i=0;i<n;i++)</pre>
         for(j=0;j<n;j++)
               scanf("%d",&c[i][j]);
         for(k=0; k<n; k++)
                 for(i=0;i<n;i++)</pre>
                 for(j=0;j<n;j++)
                          c[i][j]=min(c[i][j],c[i][k]+c[k][j]);
         printf("\n All pairs shortest path\n");
         for(i=0;i<n;i++)
                for(j=0;j<n;j++)
             printf("%d\t",c[i][j]);
    printf("\n");
         }
    }
    return 0;
int min(int a,int b)
{
  return(a<b?a:b);
}
OUTPUT:
Enter the number of nodes:3
Enter the cost matrix:
5 6 7
8 9 1
```

2 3 4

All pairs shortest path

5 6 7

3 4 1

2 3 4