Output : Floyd Warshall

```
(base) aryankushwaha@Aryan-Kushwaha Lab4 % cd "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/
/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"floydWarshall
Enter the adjacency matrix (use 99999 for no direct path):
0 6 99999 12
99999 0 5 99999
99999 99999 0 4
99999 99999 99999 0
The following matrix shows the shortest distances between every pair of vertices
0 6 11 12
INF 0 5 9
INF INF 0 4
INF INF INF 0
(base) aryankushwaha@Aryan-Kushwaha Lab4 %
```

Output : Matrix Chain Multiplication

```
cd "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/" && g++ matrixChain.cpp -o matrixChain && /
(base) aryankushwaha@Aryan-Kushwaha Lab4 % cd "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"
 Sem/Lab/Aaryan_28900/DAA/Lab4/"matrixChain
Enter the number of matrices: 5
Enter the dimensions of the matrices: 1 2 3 4 5 6
Minimum number of multiplications is 68%
(base) aryankushwaha@Aryan-Kushwaha Lab4 %
```

Output : String Editing

```
dition
(base) aryankushwaha@Aryan-Kushwaha Lab4 % cd "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"
/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"stringEdition
Enter the first string: aaryan
Enter the second string: kushwaha
Minimum number of operations to convert aaryan to kushwaha is 7
(base) aryankushwaha@Aryan-Kushwaha Lab4 %
```

Output : Travelling Salesman

```
4) travellingSalesman
(base) aryankushwaha@Aryan-Kushwaha Lab4 % cd "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"
Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"travellingSalesman
Enter the adjacency matrix:
0 12 16 23
11 0 23 45
9 8 10 34
24 25 14 17
The minimum path weight is: 56
(base) aryankushwaha@Aryan-Kushwaha Lab4 %
```

Output : 0-1 Knapsack

```
oneKnapsack
(base) aryankushwaha@Aryan-Kushwaha Lab4 % cd "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"
Open/5th Sem/Lab/Aaryan_28900/DAA/Lab4/"zeroOneKnapsack
Enter the number of items: 3
Enter the values of the items: 78 46 87
Enter the weights of the items: 20 10 30
Enter the capacity of the knapsack: 55
The maximum value that can be put in the knapsack is 165
(base) aryankushwaha@Aryan-Kushwaha Lab4 %
```