Name :-
Purval Madhukar Bhude

Roll No. S20230010193

Subject :- ADSA

Lab Assignment 12

Question 1

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 12> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 12\" ; if ($?) { gcc S20230010193_A12.c -o S20230010193_A12 } ; if ($?) { .\S
20230010193_A12 }
Enter the Question you want to run: 1
enter the size of values: 3
enter the capacity of knapsack: 6
enter the values array: 10
15
40
enter the weights array: 1
2
3
--------------------------------------------------
DP Table
--------------------------------------------------
  0  1  2  3  4  5  6
0 0  0  0  0  0  0  0
1 0 10 10 10 10 10 10
2 0 10 15 25 25 25 25
3 0 10 15 40 50 55 65
--------------------------------------------------
Maximum value: 65
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 12>
```

Question 2

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 12> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 12\" ; if ($?) { gcc S20230010193_A12.c -o S20230010193_A12 } ; if ($?) { .\S
20230010193_A12 }
Enter the Question you want to run: 2
Maximum flow in original network: 15
Maximum flow after increasing A->C capacity to 15: 15
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 12>
```