Name :-
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Roll No. S20230010193

Subject :- ADSA

Lab Assignment 10

Question 1

```
_A10 } ; if ($?) { .\S20230010193_A10 }\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 10>
010193_A10.c -o S20230010193_A10 } ; if ($?) { .\S20230010193_A10 }\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 10>
A10 }\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 10>
Choose the algorithm:
Choose the algorithm:
1. Prim's Algorithm
1. Prim's Algorithm
2. Kruskal's Algorithm
Enter your choice (1 or 2): 1

Running Prim's Algorithm
Number of nodes: 5
Enter number of edges: 6
Enter edges (node1, node2, weight):
1 2 4
1 3 1
2 3 3
2 4 2
3 4 5
3 5 7

MST Edges: (3,2), (1,3), (2,4), (3,5)
Total Weight: 13
```

Question 2

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 10> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 10\" ; if ($?) { gcc S20230010193_A10.c -o S20230010193_A10 } ; if ($?)
{ .\S20230010193_A10 }
Choose the algorithm:
1. Prim's Algorithm
2. Kruskal's Algorithm
Enter your choice (1 or 2): 2

Running Kruskal's Algorithm
Number of nodes: 4
Enter number of edges: 5
Enter edges (node1, node2, weight):
1 2 3
1 3 1
2 3 4
2 4 2
3 4 5

MST Edges: (1,3), (2,4), (1,2)
Total Weight: 6
```