Assignment No-7

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Class=SE-IT

Aim- KRUSKAL'S ALGORITHMS

```
#include <bits/stdc++.h>
using namespace std;
#define V 5
int minKey(int key[], bool mstSet[])
int min = INT MAX, min index;
for (int i = 0; i < V; i++)
if (mstSet[i] == false && key[i] < min)
min = key[i], min index = i;
return min_index;
void printMST(int parent[], int graph[V][V])
cout << "Edge \tWeight\n";</pre>
for (int i = 1; i < V; i++)
cout << parent[i] << " - " << i << " \t"
<< graph[i][parent[i]] << " \n";
void primMST(int graph[V][V])
int parent[V];
int key[V];
bool mstSet[V];
for (int i = 0; i < V; i++)
key[i] = INT_MAX, mstSet[i] = false;
key[0] = 0;
parent[0] = -1;
for (int count = 0; count < V - 1; count++) {
int u = minKey(key, mstSet);
```

OUTPUT

```
Edge Weight 0-1 2 1-2 3 0-3 6 1-4 5
```

=== Code Execution Successful ===