Prim's algorithm

```
#include <stdio.h>
int n, m, e = 0;
float sum = 0;
float costs[100][100];
int VT[100], ET[100][2], vis[20];
void prims()
        while (j > 0)
            K = VT[j];
                if (costs[K][m] < min && vis[m] == 0)</pre>
                    min = costs[K][m];
        vis[v] = 1;
        sum += costs[u][v];
```

```
printf("\nEnter the number of vertices: ");
scanf("%d", &n);
           costs[i][j] = 0;
       else
          costs[i][j] = 999;
printf("Enter the number of egdes: ");
scanf("%d", &m);
printf("Enter vertices of edge with its weight: \n");
   vis[i] = 0;
prims();
printf("\nMinimum Cost is: %.2f\n", sum);
printf("Edges of Minimum spanning tree\n");
   printf("%d-->%d\n", ET[i][0], ET[i][1]);
```

OUTPUT:

```
Enter the number of vertices: 5
Enter the number of egdes: 5
Enter vertices of edge with its weight:
1 2 1
1 4 2
1 3 5
3 4 3
4 5 1.5

Minimum Cost is: 7.50
Edges of Minimum spanning tree
1-->2
1-->4
4-->5
4-->3
```