PRIM'S ALGORITHM:

PROGRAM:

```
#include <stdio.h>
#include <conio.h>
#include <process.h>
void prims();
int c[10][10], n;
void main()
   printf("\nenter the no. of vertices:\t");
   printf("\nenter the cost matrix:\n");
          scanf("%d", &c[i][j]);
   prims();
void prims()
           for (j = 1; j \le n; j++)
                    if (c[i][j] < min)
                       min = c[i][j];
```

```
v = j;
}

}

if (elec[v] != 1)
{
    printf("\n%d---->%d=%d\n", u, v, min);
    elec[v] = 1;
    ne = ne + 1;
    mincost = mincost + min;
}
    c[u][v] = c[v][u] = 9999;
}
printf("\nmincost=%d", mincost);
}
```

OUTPUT:

```
User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && gcc prims.c -o prims && "/c/ada lab/"prims
enter the no. of vertices: 4

enter the cost matrix:
0 9999 6 1
4 0 20 10
9999 3 0 12
6 9999 9999 0

1---->4=1

1---->3=6

3---->2=3
mincost=10
```