

```
#include<stdio.h>
```

```
#include<stdbool.h>
```

```
#define INF 9999999
```

```
#define V 5
```

```
int G[V][V] = {  
    {0, 9, 75, 0, 0},  
    {9, 0, 95, 19, 42},  
    {75, 95, 0, 51, 66},  
    {0, 19, 51, 0, 31},  
    {0, 42, 66, 31, 0}};
```

```
int main() {  
    int no_edge;  
    int selected[V];
```

```
(selected, false, sizeof(selected));
```

```
no_edge = 0;
```

```
selected[0] = true;
```

```
int x;
```

```
int y;
```

```

printf("Edge : Weight\n");

while (no_edge < V - 1) {

    int min = INF;
    x = 0;
    y = 0;

    for (int i = 0; i < V; i++) {
        if (selected[i]) {
            for (int j = 0; j < V; j++) {
                if (!selected[j] && G[i][j]) {
                    if (min > G[i][j]) {
                        min = G[i][j];
                        x = i;
                        y = j;
                    }
                }
            }
        }
    }

    printf("%d - %d : %d\n", x, y, G[x][y]);
    selected[y] = true;
    no_edge++;
}

return 0;
}

```

