

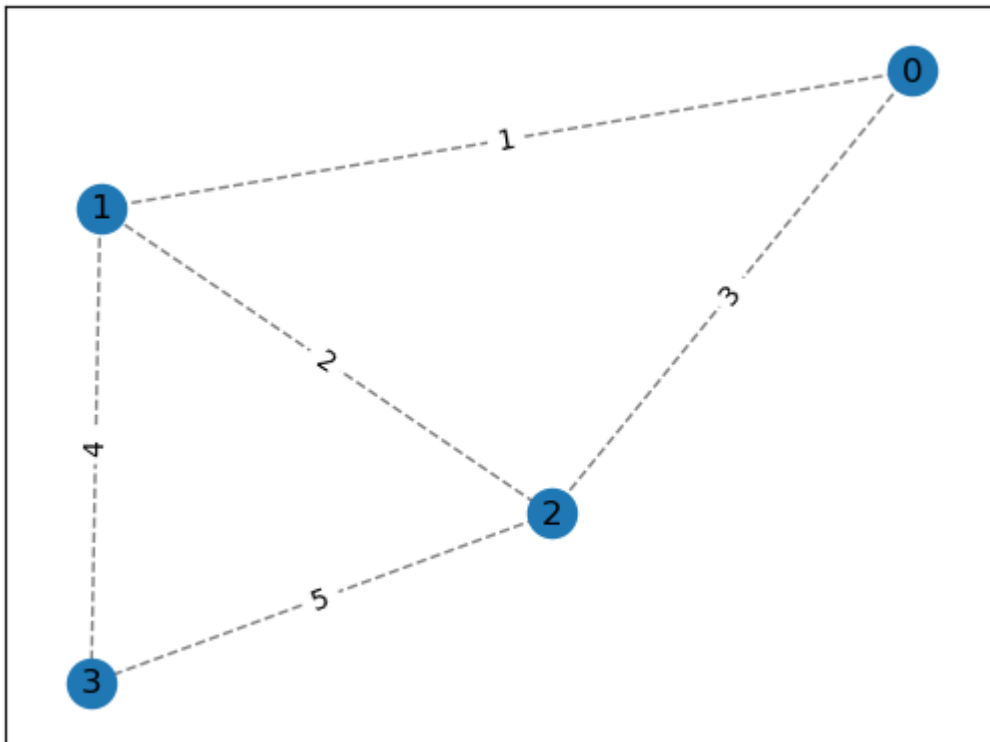
```
In [ ]: import numpy as np
import networkx as nx
import matplotlib.pyplot as plt
from MST import kruskalClass
```

```
In [ ]: # Testing
obj = kruskalClass()
A = np.array([[0, 1, 3, 0], [0, 0, 2, 4], [0, 0, 0, 5], [0, 0, 0, 0]])
T = obj.findMinimumSpanningTree(A)
print(T)

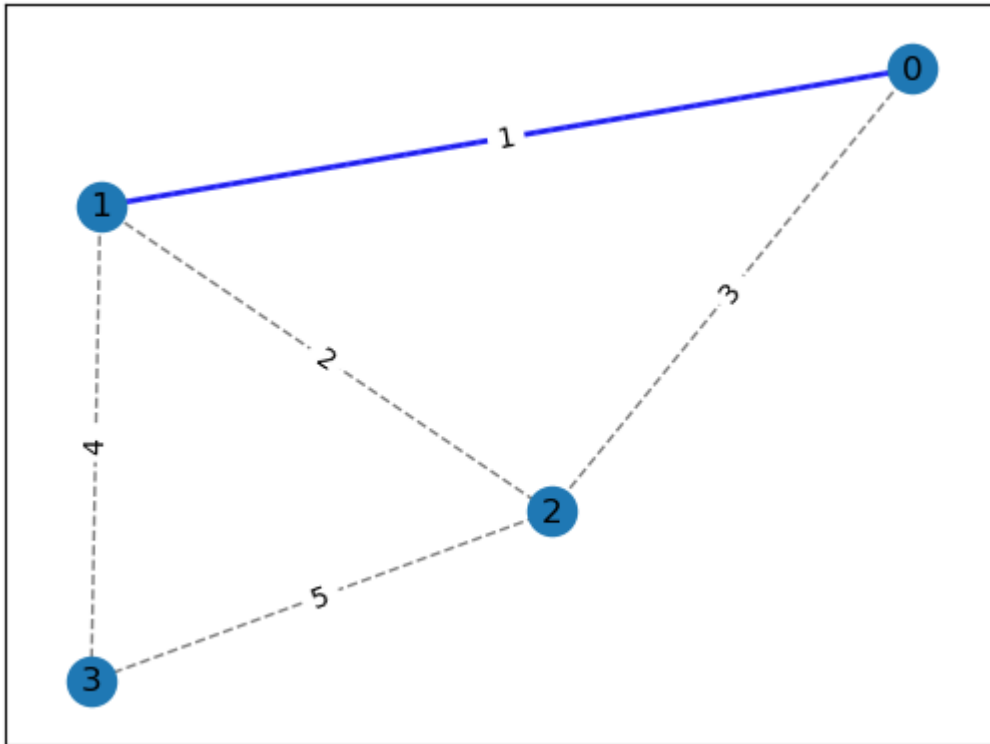
a = np.array([5, 2, 9, 1, 5, 6])
b, inds = obj.mergesort(a)
print(b)
print(inds)
```

```
# Testing
obj = kruskalClass()
A = np.array([[0, 1, 3, 0], [0, 0, 2, 4], [0, 0, 0, 5], [0, 0, 0, 0]])
obj.plotMinimumSpanningTree(A)
```

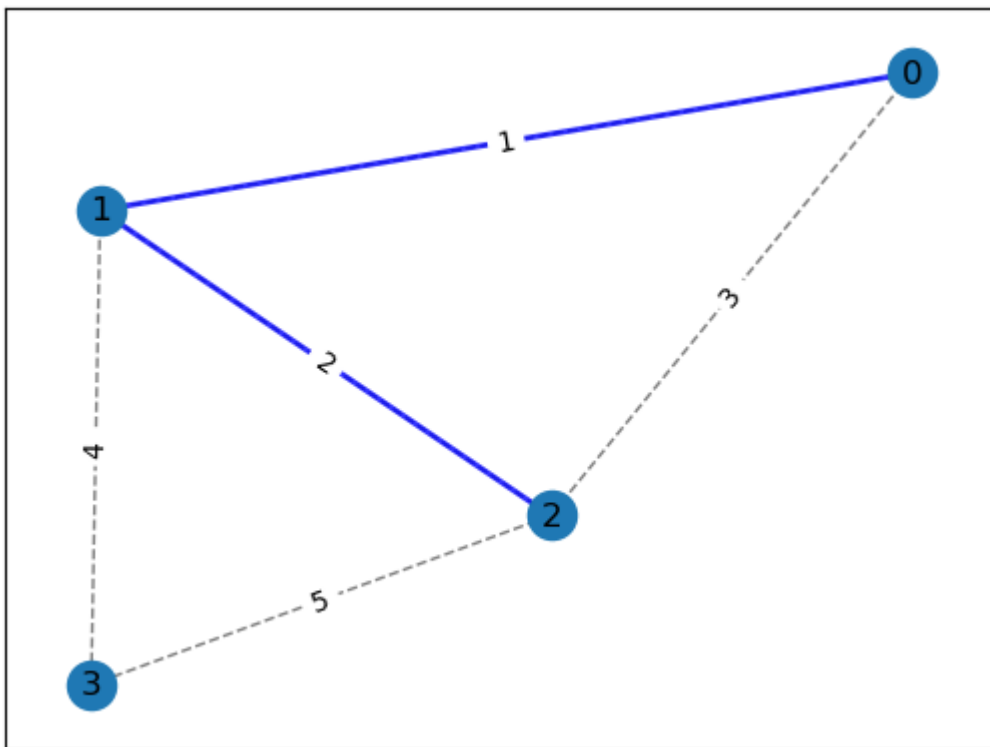
```
[[0. 1. 0. 0.]
 [0. 0. 2. 4.]
 [0. 0. 0. 0.]
 [0. 0. 0. 0.]]
[1. 2. 5. 5. 6. 9.]
[3 1 0 4 5 2]
Original Graph:
```



Adding Edge: (0, 1, 1.0)



Adding Edge: (1, 2, 2.0)



Adding Edge: (1, 3, 4.0)

