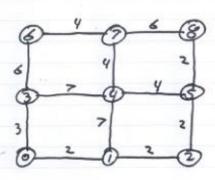
(6)



- Execute Prim - Jam'k algorithm

- We create the Shurtest Path tree Sct

. His will keep frack of the vorters included in the Shortest Author the

- he start at vortice o and we traverse through every time minimum edge from visited nodes.

```
• then 0 \rightarrow 1, because minimum edge = 2 (weight = 2)
• then 1 \rightarrow 2, because minimum edge = 2 (weight = 2)
• then 2 \rightarrow 5, because minimum edge = 2 (weight = 2)
• then 5 \rightarrow 8, because minimum edge = 2 (weight = 2)
• then 0 \rightarrow 3, because minimum edge = 3 (weight = 3)
• then 5 \rightarrow 9, because minimum edge = 3 (weight = 9)
• then 9 \rightarrow 7, because minimum edge = 9 (weight = 9)
• then 7 \rightarrow 6, because minimum edge = 9 (weight = 9)
```

-So, the manhous spanning trac works = 23

