YouTube Video Summarization

The first Thing that we need to do is import queue now before we get into this into the whole queue Thing . How to create Queues how to work with Queues let 's Talk about why should we use queues the Reason we should use Queue is because when we have multiple Threads running you need to have a structured Way of getting in the Data and getting out the Data . The Problem is now when these Threats are done they need a Way to say ok 20 was already used because thread 1 will take 10 and the next One is 20 but 20 is already used or was already processed by Threat too . If we have three Threads each takes one of these Numbers and processes this Number so basically takes the Number or the Element and Process it so when it 's done with that it has to Access the next Element that was not processed yet . Ny Elements have been processed so thread 1 is going to take the first one and it will increase the Number by one then Threat to will take the second one and so on . Threat 1 and Threat to finish their Processing at the same Time would increase directly to 5 and Everyone will think that this is the next Number to be processed and 40 would be skipped also maybe None of them increases the Number correctly . The next Thread that tries to get an Element from the Queue will get 2 and so on so we basically pop out the Element that 's next to be taken out and we 're using it . Once an Element is gotten out of the List it wo n't get back into the List again because it 's already used and we can not process the same Element twice and we also can not skip Elements because the Queue always gives us the next Element . Number in Numbers I say Q Dot Sorry . This would print ten because it 's the next Element . If I do it again this would be ten and twenty as you can see . Irst Element that enters the Queue is also the first Element to leaf with you if we want to reverse this we can also create a last in first out so Lifo Queue . If you want to do a little Bit more manually you can define a Priority Queue and this Priority Queue allows you to give every Element a certain Priority by passing a Tuple . The lower the Number the higher the Priority so one would be the highest Priority 100 would be quite low two would be still pretty high and so on so I can give this Element a Priority of two and say it is at the World . Then I can say another Element

gets the Priority Number eleven for Example and it 's a Number 99 and then I give it another one which has the Priority of five and this is a Float . So if there are Elements in the Queue we 're going to print the next Element and here you we get the Tuples in the Order of Priority as you can see I wrote it down like two eleven five one but I get one two five Eleven because it 's sorted by Priority . If you 're interested in seeing how to use Queues in an actual Project you can go ahead to neural 9.com and click on the Blog . Here you see a tutorial about how to create a threaded Port Scanner in Python . Neural Nine.com is a tutorial on how to combine threading Sockets and Queues . The next Video we 're going to talk about Socket Programming . If you enjoyed the Video and learn Something feel free to ask Questions .