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| Sr No. | Practical Name |
| 1 | Install Virtual box/VMware Workstation with different flavours of linux or windows OS on top of windows. |
| 2 | Installation and configure Google App Engine. Create hello world app and other simple web applications using python/java.  (<https://mkyong.com/google-app-engine/google-app-engine-python-hello-world-example-using-eclipse/>)  (<https://websites.umich.edu/~csev/books/gae/handouts/AppEngine-Install-Windows.pdf>) |
| 3 | install hadoop single node cluster and run simple applications like wordcount.  (<https://www.edureka.co/blog/install-hadoop-single-node-hadoop-cluster>)  OR |
| 4 | Create a simple MapReduce program for word count analysis.  (<https://www.javatpoint.com/mapreduce-word-count-example>)  (<https://www.michael-noll.com/tutorials/writing-an-hadoop-mapreduce-program-in-python/> )  (<https://medium.com/analytics-vidhya/word-count-using-mapreduce-on-hadoop-6eaefe127502> ) |
| 5 | Implement network virtualization using VirtualBox  (<https://www.nakivo.com/blog/virtualbox-network-setting-guide/> )  (<https://www.youtube.com/watch?v=cxCvv__AfCY> ) |
| 6 | Installation and Configuration of virtualization using KVM.  ( <https://phoenixnap.com/kb/ubuntu-install-kvm> ) |
| 7 | Install and configure Docker and Kubernetes.  ( <https://www.letscloud.io/community/how-to-install-kubernetesk8s-and-docker-on-ubuntu-2004> ) |
| 8 | Find a procedure to transfer the files from one virtual machine to another virtual machine.  (<https://www.nakivo.com/blog/3-simple-ways-to-transfer-files-from-a-vm-to-a-host/> ) |
| 9 | Virtual Machine on AWS-Launching the virtual machine on Amazon AWS and doing basic.  <https://www.youtube.com/watch?v=YL1hViT4Buw>  <https://middleware.io/blog/virtual-machine-on-aws-guide/> |
| 10 | AWS EC2 Windows Instance -To launch and connect to a Windows instance and to remotely connect to the windows instance.  <https://www.cloud-plusplus.com/post/aws-ec2-windows-instance> |