**OVERVIEW OF DOCKER**

1. **What is Docker?**

* Docker is a tool with is used to automate the deployment of applications in lightweight containers so that applications can work efficiently in different environments.

1. **How does Docker work?**

A screenshot of a computer

Description automatically generated

1. **What is Docker Container?**

* Docker Container is an executable software package that includes all dependencies (frameworks,libraries,etc) requied to execute an application
* With Docker Container,applications can work efficiently in diferent computer environments
* Example:

A screen shot of a computer

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1. **What is Docker File?**

* Dockerfile is a simple text file which consists of instructions to build Docker Images
* Commands in dockerfile:
* FROM: Specify which image will be used as the base image for the image build process to execute subsequent commands
* PULL: Add files from your Docker repository
* RUN: Create image layers and execute commands in the container
* ENTRYPOINT: Execute a default application every time a container is created with the image.
* CMD: Execute a single command within a container. Only one file can exist in the Dockerfile.
* A screenshot of a computer program

  Description automatically generatedExample:

1. **What is Docker Image?**

* Docker images are templates used for building container. Docker images are immutable, read-only files that consist of the source code, libraries,dependencies,tool, and any other files necessary for running an application.
* Name of the image:Namespace,Image,Tag
* Example:

