Overview 20220909

Command

```
mkdir gradlebuild #creat folder
cd gradlebuild #direct to folder
touch <file_name> #create file
```

Gradle

```
gradle init
gradle wrapper
gradle tasks --all #list all the tasks
gradle tasks --group sendmessage #list tasks under certain group
gradle -q myfirstmessage
```

```
task myfirstmessage{
    doLast {
        println 'This is the first message'
    }
    group = 'sendmessage'
}
```

The **doLast** creates a task action that runs when the task executes. Without it, you're running the code at configuration time on every build.

Ant

```
ant all
```

```
<project>
    <target name="helloAnt">
        <property name="helloMessage" value="hello message from
build.xml file">
        </property>
        <echo> ${helloMessage} </echo>
    </target>

    <target name="createCopyFolder">
        <delete dir="copyfolder"></delete>
```

```xml
        <mkdir dir="copyfolder"></mkdir>
        <touch file="copyfolder/test.xml">
        </touch>
    </target>

    <target name="copyTest" depends="createCopyFolder">
        <copy file="copyfolder/test.xml" todir="testdir\folder"></copy>
        <path id="classpath">
            <pathelement location="test.xml"></pathelement>
            <pathelement location="testdir/test.xml"></pathelement>
        </path>
        <pathconvert property="classpath.path" refid="classpath">
</pathconvert>
        <echo>${classpath.path}</echo>
    </target>

    <target name="all" depends="helloAnt,copyTest">
    </target>
</project>
```

Shell scripts and docker

```shell
sudo docker build -f dockerfile.template -t rainydocker:test #create a
docker image call "rainydocker:test" under "dockerfile.template"

sudo docker run --name rainytest rainydocker:test
#start a container call "rainytest"
```

```dockerfile
FROM ubuntu
MAINTAINER rainy
WORKDIR /dockerTest

#1. pull image "centos:latest"
PULL centos:latest

#2. install "unzip" in the docker
RUN yum install unzip
RUN yam clean all

#3. copy "test" folder into docker
COPY test .
```

Question

1. Docker Desktop, Remote Desktop Connection, Notepad++? What are these three application used for, I have seen them used by other colleagues but I did not use them for previous tasks.
2. Docker, Ant, Gradle, what's the difference and connection? Which one used more common?
3. Which part are we? Development? DevOps? Operations?