**Build Knowledge Based Questions: Submit the answers with the questions in an attachment.**

**General**

1. What is BUILD? ANT?
   1. Build is a process of converting java files into machine readable binary files. .java files are given by developers which are converted into .class files packaged to jar, war or Ear . Ant is a build tool which simplifies the above mentioned task.
2. How are Ant target, Task, properties similar
   1. Target are compilation of tasks inside the xml files. Task are executable command like making a directory , pointing out the source directory, copying files etc. Ant properties is a files by itself where properties of build can be described which enables use of same xml script for multiple builds.
3. What is lib folder, src folder, bin folders, manifest file, application.xml, WEB-INF/\* dir and dependencymanagement mean?
4. Describe the roles of these packages EAR, WAR, JAR?
   1. Jar 🡪 java archive is a collection of .class files.
   2. War🡪 web archive is a collection of jar + web related content
   3. Ear🡪 enterprise archive is a collecrion of jar+war &ejb
5. What is Java Servlet, JSP, ASP?
   1. Jsp🡪java server page, based on java scripting languge
   2. Asp🡪active server page, used in building .net application.
   3. Java servlet🡪 it is a java program that extends the capabilities of java server.

**Ant**

1. Name 5 tasks which are very useful. Demonstrate how to setup two of them.
   1. Copy, delete, mkdir, move,manifest

Copying file to file

<target name ="2" >

<copy file="ashish.xml" tofile ="thapa.xml"/>

</target>

Making a directory

<target name ="1">

<mkdir dir ="ram"/>

</target>

1. If target name C is executed, which target will be executed first, second and third.

Target Name A depends on B

Target Name B

Target Name C depends on A

* 1. B🡪A🡪C

1. Show an example of javac, jar, war tasks, copytodir task.
   1. Copy to dir

<target name ="3" depends = "2">

<copy file="ashish.xml" todir ="C:\myproject"/>

</target>

* 1. Javac

<target name ="compile" >

<javac srcdir= “src” destdir = “build”/>

</target>

* 1. Jar

<target name ="package" >

<jar basedir= “build” destfile = “filename.jar”/>

</target>

* 1. War

<target name ="package" >

<war basedir= “build” webxml = “filename.war”/>

</target>

1. what is the ant home path version name? how to set it?
   1. Ant home path is a set path where the machine will look for ant when the ant command is executed.

For setting a path in windows,

Goto computer properties🡪 advanced task🡪

click on environment variable🡪 click new

set ant home as ANT\_HOME

SET PATH AS %ANT\_HOME%bin;