**Exercise -1: Create a file**

**Step 1:**

**knife cookbook create myFile**

**Step 2:**

**edit default recipe**

**file ‘/var/javahome/index.html’ do**

**content ‘creating file using chef’**

**action : create**

**end**

**Step 3:**

**knife cookbook upload myFile**

**Step 4:**

**knife bootstrap 192.16.15.1 -x root -P vagrant -N node-1 -r ‘reciepe[myFile::default]’**

**Exercise -2: Create Folder**

**Step 1:**

**knife cookbook create myFolder**

**Step 2:**

**edit default recipe**

**directory ‘/var/javahome’ do**

**action : create**

**end**

**Step 3:**

**knife cookbook upload myFolder**

**Step 4:**

**knife bootstrap 192.16.15.1 -x root -P vagrant -N node-1 -r ‘reciepe[myFolder::default]’**

**Exercise -3:Install apache,start apache,deploy the code**

**Step 1:**

**knife cookbook create install-apache**

**Step 2:**

**edit default recipe**

**#Installing httpd**

package 'httpd' do

action :install

end

**#Create index.html on apache**

file ‘/var/www/html/index.html’ do

content ‘<h1>Chef Rocks</h1>’

end

**#Starting & enabling httpd**

service 'httpd' do

action [:enable,:start]

End

**Step 3:**

Change the version in metadata.rb

**Step 4:**

knife cookbook upload install-apache

**Step 5:**

knife bootstrap 192.16.15.1 -x root -P vagrant -N node-1 -r ‘reciepe[install-apache::default]’

**Exercise-4 : Custom Recipes: chef run list multiple recipes**

**Step 1: create below recipes**

install\_apache.rb

enable\_apache.rb

deploy\_code.rb

**Step 2:**

In install\_apache.rb

**#Installing httpd**

package 'httpd' do

action :install

end

In enable\_apache.rb

**#Starting & enabling httpd**

service 'httpd' do

action [:enable,:start]

end

In deploy\_code.rb

**#Create index.html on apache**

file ‘/var/www/html/index.html’ do

content ‘<h1>Chef Rocks</h1>’

end

**Step 3:**

knife node run\_list set ‘node1’ ‘recipe[myapache::install\_apache],recipe[myapache::enable\_apache],recipe[myapache::deploy\_code]’

**Exercise -4: Integration Tests and Junit Test**

Create Cookbook

Run the Integration Tests

Test the cookbook

Step 1:

**Exercise-5: Install Java,Maven,Git**

Create a cookbook to install Java

Create a cookbook to install maven

Create a cookbook to install git

**Exercise-6:Chef Integration with Jenkins**

Create job in jenkins

Create Git repo in GitHub

Upload from Jenkins

Knife cookbook upload --all

Ohai

Get the Node details

Install apache based on platform using ohai attribute.