Exp. 11 RPM:

Steps:

1.install rpm

Sudo apt install rpm

2.setup RPM Build environment

mkdir -p ~/rpmbuild/{BUILD,RPMS,SOURCES,SPECS,SRPMS}

3.To check setup

tree ~/rpmbuild

4.create Script

```
$ cat << EOF >> hello.sh
#!/bin/sh
echo "Hello world"
EOF
```

This creates a file hello.sh

4. Place script in desired Directory

```
$ mkdir hello-0.0.1
$ mv hello.sh hello-0.0.1
```

5.Make it as archive

```
$ tar --create --file hello-0.0.1.tar.gz hello-0.0.1
```

6. Move it to SOURCES directory

\$ mv hello-0.0.1.tar.gz ~/rpmbuild/SOURCES

7.Create hello.spec file

nano ~/rpmbuild/SPECS/hello.spec

And write below code in it

Name: hello Version: 0.0.1 Release: 1%{?dist}

Summary: A simple hello world script

BuildArch: noarch

License: GPL

Source0: %{name}-%{version}.tar.gz

Requires: bash

%description

A demo RPM build

%prep

```
%setup -q
       %build
       # No build commands needed for a shell script
       %install
       mkdir -p %{buildroot}%{ bindir}
       cp %{name}.sh %{buildroot}%{_bindir}/%{name}
       %files
       %{_bindir}/%{name}
       %changelog
       * Fri Nov 08 2024 Aaditya Patil <aaditya.patil@walchandsangli.ac.in> - 0.0.1-1
       - First version being packaged
8.Check errors in .spec
       $ sudo apt install rpmlint
       rpmlint ~/rpmbuild/SPECS/hello.spec
9.Build Package
       $ rpmbuild -bs ~/rpmbuild/SPECS/hello.spec
10.Create binary .rpm package:
       $ rpmbuild -bb ~/rpmbuild/SPECS/hello.spec
11.To install rpm package, convert it to debian using alien tool
       $ sudo apt update
       sudo apt install alien
12.Convert
       sudo alien -k ~/rpmbuild/RPMS/noarch/hello-0.0.1-1.noarch.rpm
13.install debian package
       sudo dpkg -i hello_0.0.1-1_all.deb
14.install missing dependencies
       sudo apt install -f
15 Check if its installed correctly
       Is /usr/bin/hello
16. Change permission to execute
       Sudo chmod +x /usr/bin/hello
17. Run the script, it will print hello world
```

hello