

**College of Engineering, Pune**  
**Dept of Computer Engineering and Information Technology**  
**Year (Final B.Tech)**  
**Advanced Unix Programming (AUP)**  
**Lab 2**

1. “Using APIs, write the equivalent program for the following shell script.

```
mkdir junk
for i in 1 2 3 4 5 do
    echo hello >junk/$i
done
ls -l junk
chmod -r junk
ls -l
chmod +r junk
ls -l junk
chmod -x junk
cd junk
chmod +x junk
cd junk
```

Write appropriate comments in the program to observe the execution output.

2. A function `realpath()` resolves all symbolic links in path and returns the *ultimate* target. Write a program to list the ultimate target of the only filenames that are symbolic links in a directory. The program takes one optional argument, which is the name of a directory to be searched for the links. When no argument is specified, the search is conducted in the current working directory. Display appropriate error messages.
3. Create a shared directory for usage with a purpose that any user (not super user) can create new files in this directory, but only the owner can delete his own files and everyone else can read all files?