**321 Lab Assignment 1**

**1**.

sudo -i

cat > key1.txt

^Z

ls

cat > key2.txt

^Z

ls

cat > key3.txt

^Z

ls

rm -r snap

ls

mkdir Box1

ls

mkdir Box2

ls

cp key1.txt Box1

cd Box1

ls

cd ..

cp key2.txt Box1

cd Box1

ls

cd ..

mv key2.txt Box2

cd Box2

ls

cd..

mkdir Box3

ls

cp -r Box1 Box3

ls

cd Box3

cd Box1

ls -l

chmod u=rx key1.txt

ls -l

chmod g=rx key1.txt

ls -l

chmod u=rx key2.txt

ls -l

chmod g=rx key2.txt

ls -l

cd ..

pwd

cd /

rm -r Box1

rm -r Box2

rm key1.txt

rm key2.txt

**2**.cat > hello.txt

Hello

Ubuntu is new for me

^Z

grep -c "Hello" hello.txt

**3**. **Hard Link**:- Hard files can not be used across file systems. If the original file is deleted,the link will contain the same data. These links are faster than soft links.

**Soft Link**: Soft links can be used across file systems. It can not access the original files data. Soft links are slower than hard links.

**4**.

cat > firstone.txt

cat > second.txt

mv firstone.txt second.txt

**5**.

mkdir File1

cat > .subfile1.txt

cat > .subfile2.txt

ls -a

**6**. sed -n '15,21p' subfile.txt