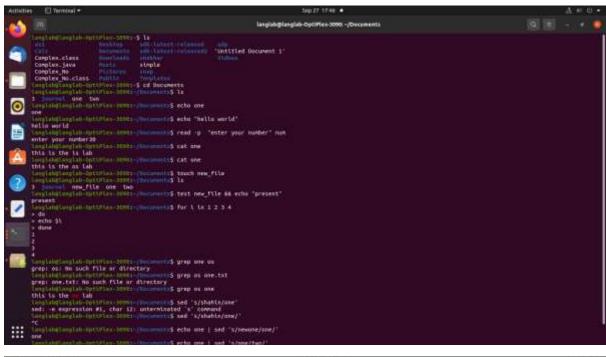
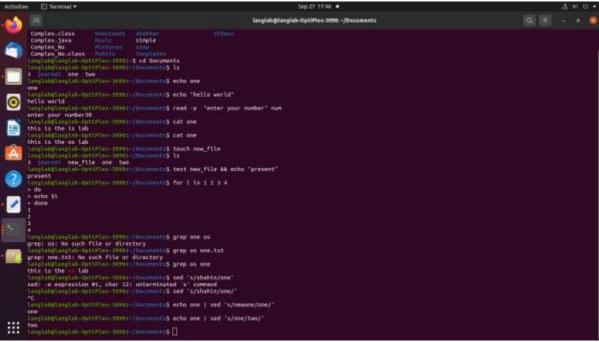
// OS Commands





```
// Adress book
// command in Terminal in linux/Ubuntu
// chmod +x filename.sh
// ./filename.sh
create(){
        echo "Enter address book name:"
        read name
        res=`ls | grep $name | wc -w`
        if [ $res -gt 0 ]
        then
                echo "File is already exists..."
                echo ""
        else
                touch $name
                echo "File is Created Successfully..."
                echo ""
        fi
}
display(){
        echo "Enter address book name: "
        read name
        res=`ls | grep $name | wc -w`
        if [ $res -gt 0 ]
        then
                cat $name
        else
                echo "File is not exists..."
                echo " "
        fi
```

```
}
insert(){
        echo "Enter address book name: "
        read name
        res=`ls | grep $name | wc -w`
        if [ $res -gt 0 ]
        then
                echo "Enter email::"
                read email
                len=`cat $name | grep $email | wc -w`
                if [ $len -gt 0 ]
                then
                        echo "This ID is already exists..."
                        echo ""
                else
                        echo "Enter first name: "
                        read fname
                        echo "Enter last name: "
                        read Iname
                        echo "Enter city name: "
                        read city
                        record='echo $fname $lname $city $email'
                        echo $record >> $name
                        echo "Record is inserted Successfully..."
                        echo ""
                fi
        else
                echo "File is not exists..."
                echo " "
        fi
```

```
}
modify(){
        echo "Enter address book name: "
        read name
        res=`ls | grep $name | wc -w`
        if [ $res -gt 0 ]
        then
                echo "Enter email::"
                read email
                len=`cat $name | grep $email | wc -w`
                if [ $len -gt 0 ]
                then
                        echo "Enter Modified Data"
                        echo "enter first name: "
                        read fname
                        echo "Enter last name: "
                        read Iname
                        echo "Enter city name: "
                        read city
                        new=`echo $fname $lname $city $email`
                        old=`cat $name | grep $email`
                        sed -i s/"$old"/"$new"/g $name
                        echo "Record modified Successfully..."
                        echo ""
                else
                        echo "Email is not exists..."
                        echo ""
                fi
        else
                echo "File is not exists..."
```

```
echo " "
        fi
}
delete(){
        echo "Enter address book name: "
        read name
        res=`ls | grep $name | wc -w`
        if [ $res -gt 0 ]
        then
                echo "Enter email::"
                read email
                len=`cat $name | grep $email | wc -w`
                if [ $len -gt 0 ]
                then
                        old=`cat $name | grep $email`
                        sed -i s/"$old"/""/g $name
                        sed -i /^$/d $name
                        echo "Record deleted Successfully..."
                        echo ""
                else
                        echo "Email is not exists..."
                        echo ""
                fi
        else
                echo "File is not exists..."
                echo " "
        fi
}
while [true]
do
        echo "----*----*-Operations-*----*
```

```
echo ""
echo "1.create"
echo "2.display"
echo "3.insert"
echo "4.modify"
echo "5.delete"
echo "6.exit"
echo "enter your choice : "
read choice
case $choice in
        1) create ;;
        2) display;;
        3) insert ;;
        4) modify ;;
        5) delete ;;
        6) exit ;;
        *) echo "Enter Correct Choice..."
         echo " " ;;
esac
```

done