

Question 1)

```
GNU nano 4.8                                calci.sh
read -p "enter first number: " n1
read -p "enter second number: " n2
echo " + - addition , - subtract , x - multiple , / - divide "
read -p "enter + - x /: " op
case $op in
+) echo "$(($n1 + $n2))" ;;
-) echo "$(($n1 - $n2))" ;;
x) echo "$(($n1 * $n2))" ;;
/) echo "$(($n1 / $n2))" ;;
esac
```

```
aks@Anuj:/home/CA1$ sudo touch calci.sh
aks@Anuj:/home/CA1$ sudo chmod 777 calci.sh
aks@Anuj:/home/CA1$ sudo nano calci.sh
aks@Anuj:/home/CA1$ ./calci.sh
enter first number: 20
enter second number: 10
+ - addition , - subtract , x - multiple , / - divide
enter + - x /: +
30
aks@Anuj:/home/CA1$ ./calci.sh
enter first number: 30
enter second number: 10
+ - addition , - subtract , x - multiple , / - divide
enter + - x /: -
20
aks@Anuj:/home/CA1$ ./calci.sh
enter first number: 10
enter second number: 10
+ - addition , - subtract , x - multiple , / - divide
enter + - x /: x
100
aks@Anuj:/home/CA1$ ./calci.sh
enter first number: 30
enter second number: 10
+ - addition , - subtract , x - multiple , / - divide
enter + - x /: /
3
aks@Anuj:/home/CA1$
```

2)

```
aks@Anuj:/home$ sudo rmdir CA1/
aks@Anuj:/home$ ls
Project  exam.txt  grep_practice  lab  student
aks      exam1.txt  hardlink_to_original  permissions_file.txt  symlink_to_original
aks@Anuj:/home$ sudo mkdir CA1
aks@Anuj:/home$ ls
CA1      aks      exam1.txt  hardlink_to_original  permissions_file.txt  symlink_to_original
Project  exam.txt  grep_practice  lab  student
aks@Anuj:/home$ cd CA1/
aks@Anuj:/home/CA1$ sudo touch exam.txt
aks@Anuj:/home/CA1$ sudo chmod 777 exam.txt
aks@Anuj:/home/CA1$ sudo cat > exam.txt
this is an exam file
^C
aks@Anuj:/home/CA1$ sudo cat exam.txt
this is an exam file
aks@Anuj:/home/CA1$ sudo cp exam.txt exam1.txt
aks@Anuj:/home/CA1$ ls
exam.txt  exam1.txt
aks@Anuj:/home/CA1$ sudo cat exam1.txt
this is an exam file
aks@Anuj:/home/CA1$
```