1. Write menu driven shell script
   i) List of files
   ii) Display machine characteristics
   iii) Today's date
   iv) Display the name of the terminal
   v) Quit out of unix

```
echo "choose ophons"
read choice
case $choice in
    i) ls ;;
    ii) uname -a ;;
    iii) date ;;
    iv) tty ;;
    v) exit ;;
esac
```

O|P:

choose ophons
3
Monday 26 December 2022 12: 13:53
PM IST

2.
```
echo "Enter name & cust id"
read name cust_id
echo "Enter the unit"
read unit
if [ $unit -gt 0 ] && [ $unit -le $0 ]
then
    charge = $(( $unit * \s /100 ))
    echo $charge
```

```
elif [ $unit -gt 50 ] && [ $unit -le 150 ]
then
        charge = $(( ($unit - 50) * 30/100 + 50
                                * 95/100 ))

        echo "$charge"

elif [ $unit -gt 150 ] && [ $unit -le 250 ]
then
        charge = $((( $unit -150) * 145/100 + 50*
                                95/100 + 100*150
                                1100))

        echo $charge

elif [ $unit -gt 250 ]
then
        charge = $((( $unit -250) * 155/100 +50*95/100
                                +100 * 150/100 ++
                        100 *    145/100))

        echo "$charge"
fi

t= $(( $charge * 125/100))
echo 't   electricity Billing'
echo " unit: $unit "
echo " charge : $t "

O|P :

    t    Electricity Billing

    Unit : 300
    Charge : 486

elif [ $unit
```

3.
```
echo "enter m & n"
read m n
for a in $(seq $m $n)
do
        k=0
        for i in $((eq 2 $ (expr $a -1)))
        do
            if [ $( expr $a % $i) -eq 0]
            then
                k=1
                break
            fi
        done
    if [ $k -eq 0]
    then
        echo $a
    fi
done
```

O/P:
```
enter m & n
u  17
5
7
11
13
17
```

4. decimal to binary
```
echo "enter n"
read n
c=$(echo "obase = 2 : $n" |bc)
echo binary $c
```

O/P:
enter n
34
bnary | 00 0| 0

C. Multiple file → directory

Sre -dir = "/path / source / directory"
dst _dir = "/path / destination / directory"
files = "file / file 2 files fileu"

for file in $filesdo

cp = "$src_dir / $file : $dest_dir /$fu"

done

echo "enter your choice"
read ch
echo "1 list of files"
echo "2 Machine - characteristic"
echo "3 Todays date"
echo "4 Display name of terminal"
echo "5 Quit"

case "$ch" in

"1") ls -l;;
"2") echo "date 'date'";;
"3") cal;;
"4") tty;;
"5") exit;;

esac

O/P

entu your choice
4
/dev/pts/e