

```
#!/bin/bash
clear

c=0
c2=0
Arr=()
Number=()
input="f1.txt"
```

```
while IFS= read -r line
do
line="$(echo "$line"|tr -d '\n')"
if [[ $((c%2)) == 0 ]]
then
Arr[c/2]="$line"
c=$((c+1))
else
Number[c/2]="$line"
c=$((c+1))
fi
done < "$input"
```

```
#####
```

```
if [[ $1 == '-i' ]]
then
```

```
clear
echo "Add Contact"
```

```
flag=0
read -p "Plz enter Name " AddedName
SearchCounter=0
for item in ${Arr[*]}
do
if [[ $item == $AddedName ]]
then
```

```
flag=1
SearchCounter=$((SearchCounter+1))
else
SearchCounter=$((SearchCounter+1))
fi
done
```

```
if [[ $flag == 1 ]];
then
echo "The name is already added, if you wish to edit it please remove it and add it again"
fi
```

```
if [[ $flag == 0 ]];
```

then

```
read -p "Plz enter Number: " AddedNumber
```

```
size=${#Arr[*]}
Arr[size]=$AddedName
Number[size]=$AddedNumber
```

```
rm -f f1.txt
Counter1=0
for item in ${Arr[*]}
do
echo $item >>f1.txt
echo ${Number[$Counter1]}>>f1.txt
Counter1=$((Counter1+1))
done
fi
```

```
elif [[ $1 == '-v' ]]
then
```

```
clear
echo "*****"
echo "View All"
#####
#####
#####
#view All
Counter1=0
for item in ${Arr[*]}
do
printf "%s\n" $item
#if [[ $Number!=0 ]]
#then
printf "%s\n" ${Number[$Counter1]}
Counter1=$((Counter1+1))
done
```

```
elif [[ $1 == '-e' ]]
then
```

```
clear
echo "*****"
echo "Delete All Mode"
Arr=()
Number=()
printf > f1.txt
```

```
elif [[ $1 == '-d' ]]
then
```

```

clear
echo "remove Contact"
#####
#####
#####
#Remove An element
flag=0
read -p "Plz enter  Name " value
SearchCounter=0
for item in ${Arr[*]}
do
if [[ $item == $value ]]
then
echo $item

printf "%s\n" ${Number[$SearchCounter]}

unset 'Arr[SearchCounter]'
unset 'Number[SearchCounter]'
unset 'Arr[SearchCounter]'
flag=1
SearchCounter=$((SearchCounter+1))
else
SearchCounter=$((SearchCounter+1))
fi
done
if [[ $flag == 1 ]];
then
echo "Delete is done successfully"
else
echo "The element does not exist"
fi

```

```

elif [[ $1 == '-s' ]]
then

```

```

clear
echo "search"

flag=0
read -p "Plz enter  Name " value
SearchCounter=0
for item in ${Arr[*]}
do
if [[ $item == $value ]]
then
#echo ${Arr[*]}
#echo ${Number[*]}
echo $item

printf "%s\n" ${Number[$SearchCounter]}

flag=1
SearchCounter=$((SearchCounter+1))

else
SearchCounter=$((SearchCounter+1))

```

```

fi
done
if [[ $flag == 1 ]];
then
echo "Here is the contact"

else
echo "The element does not exist"
fi

fi

#####
#####
#####

cont=1

while [ $cont == 1 ] && [[ $1 != '-v' ]] && [[ $1 != '-i' ]] && [[ $1 != '-s' ]] &&
[[ $1 != '-e' ]] && [[ $1 != '-d' ]];
do

echo "Plz chose mode"
echo "1)Add Contact"
echo "2)Remove Contact"
echo "3)View All"
echo "4)Delete All"
echo "5)Exit"
read -p "Plz enter Choice: " choose

if [[ $choose == 1 ]];
then
clear
echo "Add Contact"
read -p "Plz enter Name: " AddedName
read -p "Plz enter Number: " AddedNumber

size=${#Arr[*]}
Arr[size]=$AddedName
Number[size]=$AddedNumber
elif [[ $choose == 2 ]];
then
clear
echo "remove Contact"
#####
#####
#####
#Remove An element
flag=0
read -p "Plz enter Name " value
SearchCounter=0
for item in ${Arr[*]}
do
if [[ $item == $value ]]
then
echo ${#Arr[*]}
echo ${#Number[*]}
unset 'Arr[SearchCounter]'
unset 'Number[SearchCounter]'

```

```

unset 'Arr[SearchCounter]'
#unset 'Number[SearchCounter]'
#unset 'Arr[SearchCounter+1]'
flag=1
SearchCounter=${SearchCounter+1}
else
SearchCounter=${SearchCounter+1}
fi
done
if [[ $flag == 1 ]];
then
echo "Delete is done successfully"
else
echo "The element is not exist"
fi

elif [[ $choose == 3 ]]
then
clear
echo "*****"
echo "View All"
#####
#####
#####
#view All
Counter1=0
for item in ${Arr[*]}
do
printf "%s\n" $item
#if [[ $Number!=0 ]]
#then
printf "%s\n" ${Number[$Counter1]}
Counter1=$((Counter1+1))
done
#####
#####
#####

elif [[ $choose == 4 ]]
then
clear
echo "*****"
echo "Delete All Mode"
Arr=()
Number=()
printf > f1.txt

elif [[ $choose == 5 ]]
then
clear
echo "*****"
echo "Exit Mode"

rm -f f1.txt
Counter1=0
for item in ${Arr[*]}
do
echo $item >>f1.txt

```

```
echo ${Number[$Counter1]}>>f1.txt  
Counter1=$((Counter1+1))  
done
```

```
cont=0  
else  
echo "plz enter valid choice"
```

```
fi
```

```
done
```