Q1Funcionalty.sh

```bash
#!/bin/bash
function insert_new_record () {
    echo -n "Enter key: "
    read key
    info=$(grep -w "$key" $1)
    key2=`echo $info| cut -d ":" -f 1`
    if [ $key == $key2 ]
    then
        echo "Already exist"
    else
        echo -n "Enter value: "
        read value

        coded=`echo $value|base64`

        echo "version 1 $USER" >> $1
        echo "$key : $coded" >> $1

        echo
"_____"
        echo " "
        echo "Adding new key to the database ($1)...... Done"
        echo
"_____"
        echo " "
    fi
}
function delete_record () {
    echo -n "Enter key: "
    read key
    info=$(grep -n "$key" $1)

    key2=`echo $info| cut -d ":" -f 2`

    line=`echo $info| cut -d ":" -f 1`

    line2=$(expr $line - 1)
```

```bash
    if [ $key == $key2 ]
    then
        sed -i.bak -e "$line d;$line2 d" $1

        echo "_____"
        echo " "
        echo "The record holding the key $key got deleted."
        echo "_____"
        echo " "
    else
        echo "_____"
        echo " "
        echo "Does not exist"
        echo "_____"
        echo " "
    fi
}
# grep -n
# grep -B 1
function search_record () {

    echo -n "Enter key: "
    read key

    value=$(grep -w "$key" $1)

    key2=`echo $value| cut -d ":" -f 1`

    if [ $key == $key2 ]
    then
        decoded=`echo $value| cut -d ':' -f2-`

        echo "_____"
        echo " "
        echo "$key : $(echo $decoded|base64 -d)"
        echo "_____"
        echo " "
    else
        echo "_____"
        echo " "
        echo "Does not exist"
        echo "_____"
        echo " "
    fi
```

```bash
}
function edit_record () {

    echo -n "Enter key: "
    read key

    info=$(grep -n "$key" $1)

    key2=`echo $info| cut -d ":" -f 2`

    line=`echo $info| cut -d ":" -f 1`

    line2=$(expr $line - 1)

    fullInfo=$(grep -B 1 "$key" $1)

    number=`echo $fullInfo| cut -d " " -f 2`

    newNumber=$(expr $number + 1)


    if [ $key == $key2 ]
    then

        coded=`echo $info| cut -d ':' -f3-`

        echo "old value: $(echo $coded|base64 -d)"

        echo -n "Enter new value: "
        read newValue

        newCoded=`echo $newValue|base64`

        sed -i "$line2 s/$number/$newNumber/" $1
        sed -i "$line s/$coded/$newCoded/" $1

        echo "_____"
        echo " "
        echo "Successful"
        echo "_____"
        echo " "
    else
        echo "_____"
        echo " "
```

```
        echo "Does not exist"
        echo "_____"
        echo " "
    fi
}
```