#!/bin/bash

#Descript:SHELL应用实战联系--学生成绩管理小程序

#Version:V10

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

#初始界面子程序

init(){

clear

echo -e "\033[33m\033[101m

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

# 1:search a record #

# 2:add a record #

# 3:delete a record #

# 4:display all record #

# 5:edit record with vi #

# H:help screen #

# Q:exit pragma #

##########################################"

echo -e "\033[32m\033[40m"

read -p "please enter your choice [1 2 3 4 5 H Q]:" val\_in

}

#1搜索记录 界面子程序

fun\_search(){

echo -e "\033[37m"

#在模式1输入空值时flag\_1置1,使界面停留并不清屏

[ $flag\_1 -eq 0 ] && clear

read -p "please enter name >>>" val\_sech

}

#2添加记录 界面子程序

fun\_add(){

echo -e "\033[37m"

if [ $flag\_2 -eq 0 ];then

clear

read -p "enter name and score of a record:" val\_add

else

#模式2输入空值时flag\_2置1,使界面停留并不清屏

read -p "please enter name and score:" val\_add

fi

}

#3删除单条记录

fun\_delete(){

echo -e "\033[37m"

read -p "please enter the number you want to delete：" val\_del

}

#4列出所有记录 子程序

fun\_display(){

echo -e "\033[37m"

cat -n /record

}

#5vi编辑记录 子程序

fun\_vi(){

vim /record

}

#H帮助界面 界面子程序

fun\_help(){

clear

echo -e "\033[36m"

echo "This is a student's record manager program"

}

#Error输入 子程序

fun\_error(){

echo -e "\033[31m"

echo "please enter valid mode"

}

#No record 子程序

no\_record(){

if [ ! -f /record ];then

echo -e "\033[31m"

echo "No record!"

sleep 3

continue

fi

}

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

#变量初始化

flag\_1=0

flag\_2=0

flag\_3=0

#定义系统变量$IFS为固定值’\n’，避免变量赋值时由于空格而报错。

PRE\_IFS=$IFS

IFS=$'\n'

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

#主程序

while :

do

[ $flag\_1 -eq 0 ] && [ $flag\_2 -eq 0 ] && [ $flag\_3 -eq 0 ] && init

case $val\_in in

1)

no\_record

fun\_search

if [ -z $val\_sech ];then

echo "you didn't enter a name"

flag\_1=1

elif [ ! -f /record ];then

echo "you must have some scores before you can search!"

sleep 5 && flag\_1=0

elif grep -i $val\_sech /record > /dev/null;then

grep -i $val\_sech /record

sleep 3 && flag\_1=0

else

echo "name not in record"

sleep 1 && flag\_1=0

fi

;;

2)

fun\_add

if [ -z $val\_add ];then

echo "you didn't enter any value"

flag\_2=1

else

echo $val\_add >> /record

echo "added \"$val\_add\" in record"

sleep 3 && flag\_2=0

fi

;;

3)

no\_record

#为了避开$val\_del为空值

[ $flag\_3 -eq 0 ] && fun\_display

fun\_delete

flag\_3=1

if [ ! -z $val\_del ];then

del\_text=`sed -rn "${val\_del}p" /record`

sed -ri "${val\_del}d" /record

echo "\"$del\_text\" 删除成功" && sleep 3 && flag\_3=0

fi

;;

4)

no\_record

fun\_display && sleep 3

;;

5)

no\_record

fun\_vi

;;

H)

fun\_help && sleep 3

;;

Q)

echo -e "\033[0m" && clear && exit

;;

\*)

fun\_error && sleep 3

esac

done

#$IFS变量值恢复

IFS=$PRE\_IFS