#!/bin/bash

read -p "Enter your Assignment mark (0-40): " assign

while [ $assign -lt 0 ] || [ $assign -gt 40 ]; do

echo -e "You've entered a number out of range \n"

read -p "Enter your Assignment mark (0-40): " assign

done

read -p "Enter your test1 mark (0-15): " test1

while [ $test1 -lt 0 ] || [ $test1 -gt 15 ]; do

echo -e "You've entered a number out of range \n"

read -p "Enter your test1 mark (0-15): " test1

done

read -p "Enter your test2 mark (0-15): " test2

while [ $test2 -lt 0 ] || [ $test2 -gt 15 ]; do

echo -e "You've entered a number out of range\n"

read -p "Enter your test2 mark (0-15): " test2

done

read -p "Enter your final exam mark (0-30): " exam

while [ $exam -lt 0 ] || [ $exam -gt 30 ]; do

echo -e "You've entered a number out of range\n"

read -p "Enter your final exam mark (0-30): " exam

done

total=$(($assign+$test1+$test2+$exam)) >/dev/null 2>&1

if [ $assign -ne $assign ] >/dev/null 2>&1 || [ $test1 -ne $test1 ] >/dev/null 2>&1 || [ $test2 -ne $test2 ] >/dev/null 2>&1 || [ $exam -ne $exam ] >/dev/null 2>&1

then

echo -e "you have not entered a valid number\n "

./lab8

else

case $total in

[0-9]|[1-4][0-9])echo "Your final mark is an: F";;

[5][0-2])echo "Your final mark is an: D-";;

[5][3-6])echo "Your final mark is an: D";;

[5][7-9])echo "Your final mark is an: D+";;

[6][0-2])echo "Your final mark is an: C-";;

[6][3-6])echo "Your final mark is an: C";;

[6][7-9])echo "Your final mark is an: C+";;

[7][0-2])echo "Your final mark is an: B-";;

[7][3-6])echo "Your final mark is an: B";;

[7][7-9])echo "Your final mark is an: B+";;

[8][0-4])echo "Your final mark is an: A-";;

[8][5-9])echo "Your final mark is an: A";;

[9][0-9]|[1][0][0])echo "Your final mark is an: A+";;

esac

fi