clear

i="y"

echo "Enter name of database "

read db

while [ $i = "y" ]

do

clear

echo "1.View the Data Base "

echo "2.View Specific Records "

echo "3.Add Records "

echo "4.Exit "

echo "Enter your choice "

read ch

case $ch in

1)cat $db;;

2)echo "Enter id "

read id

grep -i "$id" $db;;

3)echo "Enter student id "

read tid

echo "Enter name:"

read tnm

declare -a code;

declare -a mark;

sum1=0

c=1

echo "How many subjects? "

read sub

for ((number=0;number < $sub;number++))

{

echo "Enter subject code "

read code[$number]

echo "Enter marks "

read mark[$number]

if (( "${mark[$number]}" < "33" ))

then

echo "Grade F "

c=0

point=0

elif (( "${mark[$number]}" < "40" ))

then

echo "Grade D "

point=2

elif (( "${mark[$number]}" < "50" ))

then

echo "Grade C "

point=2.5

elif (( "${mark[$number]}" < "60" ))

then

echo "Grade B "

point=3

elif (( "${mark[$number]}" < "70" ))

then

echo "Grade A- "

point=3.5

elif (( "${mark[$number]}" < "80" ))

then

echo "Grade A "

point=4

else

echo "Grade A+ "

point=5

fi

sum1=`bc<<< "scale=2;$sum1 + $point"`

}

fpoint=`bc<<< "scale=2;$sum1 / $sub"`

echo "Point = $fpoint "

if (( "$c" == "1" ))

then

if (( $(echo "$point < 2.00" | bc -l)))

then

grade=F

echo "GPA $grade "

elif (( $(echo "$point < 2.50" | bc -l)))

then

grade=D

echo "GPA $grade "

elif (( $(echo "$point < 3.00" | bc -l)))

then

grade=C

echo "GPA $grade "

elif (( $(echo "$point < 3.50" | bc -l)))

then

grade=B

echo "GPA $grade "

elif (( $(echo "$point < 4.00" | bc -l)))

then

grade=A-

echo "GPA $grade "

elif (( $(echo "$point < 5.00" | bc -l)))

then

grade=A

echo "GPA $grade "

else

grade=A+

echo "GPA $grade "

fi

else

grade=F

echo "GPA $grade "

fi

echo "$tid $tnm $point $grade ">>$db;;

\*)echo "Invalid choice ";;

esac

echo "Do u want to continue ?"

read i

if [ $i != "y" ]

then

exit

fi

done