if [ "$1" = "" ]

then

print "please enter your name"

trap "" INT 0 2 3 6 9 15

read name

if [[ "$name" != "" ]]

then

print "welcome to the game of bowling $name"

else

while [[ "$name" -eq "" ]]

do

print "please enter your name"

read name

trap "" INT 0 2 3 6 9 15

if [[ "$name" != "" ]]

then

print "welcome to the game of bowling $name"

break

fi

done

fi

else

print "welcome to the game of bowling $1"

fi

typeset -i a[12]

typeset -i b[12]

typeset -i r[10]

typeset -i ct[12]

for i in 1 2 3 4 5 6 7 8 9 10

do

bv=false

fa=0

while [[ $bv = "false" ]]

do

print "This is bowling attempt $i"

print "please enter your score in first attempt: your choices are :

1 2 3 4 5 6 7 8 9 x or X or 10"

read fa

case $fa in

1|2|3|4|5|6|7|8|9|x|X) bv=true ;;

\*) bv=false;;

esac

done

if [[ $fa = "x" || $fa = "X" ]]

then

a[$i]=10

else

a[$i]=$fa

fi

if [[ ${a[$i]} -eq 10 ]]

then

b[$i]=0

else

bv=false

while [[ $bv = "false" ]]

do

typeset -i ch

ch=10-$fa

print "please enter your score in second attempt:"

print "Your choices are :"

typeset -i cr

cr=0

while [[ cr -lt $ch ]]

do

print "$cr"

cr=$cr+1

done

print "$cr"

read b[$i]

case ${b[$i]} in

1|2|3|4|5|6|7|8|9|x|X) bv=true ;;

\*) bv=false;;

esac

done

if [[ a[$i]+b[$i] -eq 10 ]]

then

print "You scored a spare"

fi

fi

if [[ a[$i]+b[$i] -gt 10 ]]

then

print "The sum is greater than 10. Please enter the values again"

print "please enter your score in first attempt"

read a[$i]

print "please enter your score in second attempt"

read b[$i]

while [[ a[$i]+b[$i] -gt 10 ]]

do

print "The sum is greater than 10. Please enter the values again"

print "please enter your score in first attempt"

read a[$i]

print "please enter your score in second attempt"

read b[$i]

value=0

if [[ a[i] -eq 10 ]]

then

if [[ a[i+1] -eq 10 ]]

then

value=20+a[i+2]

else

value=10+a[i+1]+b[i+1]

fi

elif [[ a[i]+b[i] -eq 10 ]]

then

value=10+a[i+1]

else

value=a[i]+b[i]

fi

done

fi

value=0

if [[ a[i] -eq 10 ]]

then

if [[ a[i+1] -eq 10 ]]

then

value=20+a[i+2]

else

value=10+a[i+1]+b[i+1]

fi

elif [[ a[i]+b[i] -eq 10 ]]

then

value=10+a[i+1]

else

value=a[i]+b[i]

fi

r[i]=value

if [[ $i -eq 1 ]]

then

ct[i]=value

else

ct[i]=ct[i-1]+value

fi

print "The cumulative total is ${ct[$i]}"

done

if [[ a[10] -eq 10 ]]

then

print "please enter your score in first attempt of 11th round"

read a[11]

if [[ a[11] -eq 10 ]]

then

print "please enter your score in first attempt of 12th round "

read a[12]

else

print "please enter your score in second attempt of 11th round"

read b[11]

fi

elif [[ a[10]+b[10] -eq 10 ]]

then

print "please enter your score in first attempt of 11th round"

read a[11]

fi

#Calculating the result

for i in 1 2 3 4 5 6 7 8 9 10

do

value=0

if [[ a[i] -eq 10 ]]

then

if [[ a[i+1] -eq 10 ]]

then

value=20+a[i+2]

else

value=10+a[i+1]+b[i+1]

fi

elif [[ a[i]+b[i] -eq 10 ]]

then

value=10+a[i+1]

else

value=a[i]+b[i]

fi

r[i]=value

done

for i in 1 2 3 4 5 6 7 8 9 10 11 12

do

echo Round $i first attempt is ${a[$i]} and second attempt is ${b[$i]}

done

for i in 1 2 3 4 5 6 7 8 9 10

do

echo Round $i Total is ${r[$i]}

done

typeset -i finaltotal=0

for i in 1 2 3 4 5 6 7 8 9 10

do

finaltotal=finaltotal+r[i]

done

print "final total is $finaltotal"

#Appending the output to bowling.txt file

echo "$name\t`date`\t${a[1]}\t${b[1]}\t${a[2]}\t${b[2]}\t${a[3]}\t${b[3]}\t${a[4]}\t${b[4]}\t${a[5]}\t

${b[5]}\t${a[6]}\t${b[6]}\t${a[7]}\t${b[7]}\t${a[8]}\t${b[8]}\t${a[9]}\t${b[9]}\t${a[10]}\t${b[10]}\t

$finaltotal" >> bowling.txt