ASSIGMENT-8

1. Shell script to print whether the number entered by the user is even or odd:

echo "Enter a number:"

read num

if [ $((num % 2)) -eq 0 ]; then

echo "The number $num is even."

else

echo "The number $num is odd."

fi

1. Shell script to print the largest of three numbers:

echo "Enter three numbers:"

read a

read b

read c

if [ $a -ge $b ] && [ $a -ge $c ]; then

echo "$a is the largest."

elif [ $b -ge $a ] && [ $b -ge $c ]; then

echo "$b is the largest."

else

echo "$c is the largest."

fi

1. Shell script to print whether the year entered by the user is a leap year or not:

echo "Enter a year:"

read year

if [ $((year % 400)) -eq 0 ]; then

echo "$year is a leap year."

elif [ $((year % 100)) -eq 0 ]; then

echo "$year is not a leap year."

elif [ $((year % 4)) -eq 0 ]; then

echo "$year is a leap year."

else

echo "$year is not a leap year."

fi

1. Shell script to calculate the balance of the account based on conditions:

echo "Enter account balance:"

read balance

echo "Enter withdrawal amount:"

read withdraw

if [ $withdraw -lt 1500 ]; then

tax=$(echo "$withdraw \* 0.03" | bc)

elif [ $withdraw -ge 1500 ] && [ $withdraw -le 3000 ]; then

tax=$(echo "$withdraw \* 0.04" | bc)

else

tax=$(echo "$withdraw \* 0.05" | bc)

fi

if [ $balance -lt $withdraw ]; then

echo "Insufficient balance."

else

amount\_withdrawn=$(echo "$withdraw - $tax" | bc)

new\_balance=$(echo "$balance - $withdraw" | bc)

echo "Amount withdrawn: $withdraw"

echo "Tax deducted: $tax"

echo "New balance: $new\_balance"

fi