Write a function to check if the two numbers are Palindromes

```
+ read -p 'Enter Number : ' n
Enter Number : 545
+ len=3
+ (( i=3 - 1 ))
+ (( i>= 0 ))
+ rev=5
+ (( i--  ))
+ (( i>= 0 ))
+ rev=54
+ (( i--  ))
+ (( i>= 0 ))
+ rev=545
+ (( i--  ))
+ (( i>= 0 ))
+ echo 545
545
+ num=545
+ [[ 545 -eq 545 ]]
+ echo 'given number is palindrome'
given number is palindrome
```

```
#!/bin/bash -x
read -p "Enter Number : " n

len=${#n}
#echo $len
for (( i=$len - 1; i>= 0; i-- ))
do
        rev=$rev${n:$i:1}
done
        echo $rev;
        num=$rev;

if [[ $n -eq $num ]]
then
        echo "given number is palindrome"
else
        echo "Given number is not palindrome"
fi
```

Take a number from user and check if the number is a Prime then show that its palindrome is also prime
a. Write function check if number is Prime
b. Write function to get the Palindrome.
c. Check if the Palindrome number is also prime

```
prudhvi@PrudhviReddy:/mnt/e/Bridgelabz/Assignments/Day6/prob3$ ./primepalindrome.sh sh
Enter number :131
131 is a prime number.
131
given number is palindrome
```

```
read -p "Enter number :" num
function primeNum {
        for((i=2; i<=$num/2; i++))
        do
                 if [ $(($num%$i)) -eq 0 ]
                then
                        echo "$num is not a prime number."
                exit
                fi
        done
        echo "$num is a prime number."
}
function palindromeNum {
len=${#num}
        for (( i=$len - 1; i>= 0; i-- ))
        do
                rev=$rev${num:$i:1}
        done
                echo $rev;
                numb=$rev;
        if [[ $num -eq $numb ]]
        then
                echo "given number is palindrome"
        else
                echo "Given number is not palindrome"
        fi
}
primeNum $num
palindromeNum $num
```

Help user find degF or degC based on their Conversion Selection. Use Case Statement and ensure that the inputs are within the Freezing Point (0 °C / 32 °F) and the Boiling Point of Water (100 °C / 212 °F)

a. degF = (degC * 9/5) + 32

b. degC = (degF – 32) * 5/9

```
Prudhvi@PrudhviReddy MINGW64 /e/Bridgel
$ ./tempconversion.sh
1. Celcuis to Farenheit
2. Farenheit to Celcius

Enter option number: 1
Enter Temperature in Clecius: 25
25° Celcius is 77.00° Farenheit

Prudhvi@PrudhviReddy MINGW64 /e/Bridgel
$ ./tempconversion.sh
1. Celcuis to Farenheit
2. Farenheit to Celcius

Enter option number: 2
Enter Temperature in Farenheit: 77.00
77.00° Farenheit is 25.00° Celsius
```

```
#!/bin/bash

function ctf {
        local a=$(echo "scale=2; $1" | bc -l)
        local b=$(echo "scale=2; $a* 9/5 + 32 " | bc -l)
        echo "$a° Celcius is $b° Farenheit"
}

function ftc {
        local a=$(echo "scale=2; $1" | bc -l)
        local b=$(echo "scale=2; ($a-32) * 5/9 " | bc -l)
        echo "$a° Farenheit is $b° Celsius"
}
echo -e "1. Celcuis to Farenheit\n2. Farenheit to Celcius\n"
read -p "Enter option number: " input

case $input in
        1)
                read -p "Enter Temperature in Clecius: " in1
                #Edited Code to take Floating point numbers
                        if [[ $(echo "$in1 >= 0" | bc -l) && $(echo "$in1 <= 100" | bc -l) ]];then
                                ctf $in1
                        else
                                echo "Error: Enter a valid input between 0°C to 100°C"
                        fi
        ;;
        2)
                read -p "Enter Temperature in Farenheit: " in1
                #Edited Code to take Floating piont numbers
                if [[ $(echo "$in1 >= 32" | bc -l) && $(echo "$in1 <= 212" | bc -l) ]];then
                        ftc $in1
                else
                        echo "Error: Enter a valid input between 32°F to 212°F"
                fi
        ;;
        *)echo "Error: Invalid Input";;
esac
```