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

```
#!/bin/bash -x
echo "1.Celsius temperature into Fahrenheit"
echo "2.Fahrenheit temperatures into Celsius"
echo -n "Select your choice (1-2) : "
read choice
if [ $choice -eq 1 ]
  then
    echo -n "Enter temperature (C) : "
    read tc
    tf=$(echo "scale=2;((9/5) * $tc) + 32" |bc)
    echo "$tc C = $tf F"
  elif [ $choice -eq 2 ]
    then
    echo -n "Enter temperature (F) : "
    read tf
    tc=$(echo "scale=2;(5/9)*($tf-32)"|bc)
    echo "$tf = $tc"
  else
    echo "Please select 1 or 2 only"
fi
```

Write a function to check if the two numbers are Palindromes

```
#!/bin/bash -x
function palindrome(){
local $n=$1
r=0
while [ $n != 0  ]
      do
            r=$r*10
            r=$(($r+$n%10))
            n=$(($n/10))
      done
echo $r
}
read -p "enter the number" n;
a=$n
reverse="$(palindrome $n)"
if [ $reverse -eq $a ]
```

```
      then
            echo no is palindrome
      else
            echo no 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 a function to get the Palindrome.
c. Check if the Palindrome number is also prime

```
#!/bin/bash -x
function prime(){
local $n=$1
flag=0
for (( c=2; c<=$n/2; c++ ))
        do
        d=$(($n%$c))
                if [ $d -eq 0 ]
                        then
                                flag=1
                fi
        done

local $n=$1
if [ n -eq 1 ]
      then
            echo $n is not prime or composite
      elif [ $flag -eq 0 ]
            then
            echo $n is prime
      else
            echo $n is composite
fi
}


function palindrome(){
local $n=$1
r=0
while [ $n != 0  ]
        do
                r=$r*10
```

```
                r=$(($r+$n%10))
                n=$(($n/10))
        done
echo $r
}

read -p "enter the number to be checked= " n;
a=$n
Answer="$(prime $n)"
echo $Answer
reverse="$(palindrome $n)"
if [ $reverse -eq $a ]
        then
                echo no is palindrome
        else
                echo no is not palindrome
fi
```