Functions Practice Problems

BridgeLabz
Employability Delivered

1. 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

```
fah()
{
read -p "enter value : " c
let f=(c*9/5)+32
echo "deegree in Fahreiht = $f"
}
cel()
{
read -p "enter value : " f
let e=(f-32)*5/9
echo "degree in Celsius =$e"
}
echo "1. celsius to fraheight
2. fraheight to celsius
press 1 or 2"
read -p "enter option" i
case $i in
1) fah ;;
2) cel ;;
*) echo "wrong option" ;;
esac
```

2. Write a function to check if the two numbers are Palindromes

```
echo "Enter the number"
read n
pal()
{
num=$n
rev=0
while (( $n << 0 ))
do
a=`expr $n % 10 `
let n=$n/10
let rev=$rev*10+$a
done
echo "$num reverse is " $rev
if [ $num -eq $rev ]
then
    echo "Number is palindrome"
else
    echo "Number is not palindrome"
fi
}
r=`pal $n`
echo "$r"
```

3. 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

```
echo "Enter the number"
read n
prime(){
for (( i=2;i<=n/2;i++ ))
do
if (( n%i==0 ))
then
flag=1
break
fi
done
if (( flag==0 ))
then
echo "It is also a prime number"
else
echo "not a prime"
fi
}

pal()
{
num=$n
rev=0
while (( $n << 0 ))
do
a=`expr $n % 10 `
let n=$n/10
let rev=$rev*10+$a
done
echo "$num reverse is " $rev
if [ $num -eq $rev ]
then
    echo "Number is palindrome"
else
    echo "Number is not palindrome"
fi
}
prime n
pal $n
```