SHELL SCRIPTING

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Problem 1:

Find the reverse of a given number

```
#!/bin/bash
echo "Input a number:"
read num
n=$num
rev=0
while [ $num -gt 0 ]
do
  rem=`expr $num % 10`
  re=`expr $rev \* 10`
  rev=`expr $re + $rem`
  num=`expr $num / 10`
done
echo "Reverse is $rev"
Using function:
```

#!/bin/bash

```
echo "Input a number :"
read num
Reverse()
{
n=$num
rev=0
while [ $num -gt 0 ]
do
  rem=`expr $num % 10`
  re=`expr $rev \* 10`
  rev=`expr $re + $rem`
  num=`expr $num / 10`
done
echo "Reverse is $rev"
}
```

Output:

Input a number: 12345

Reverse is 54321

Reverse \$num

Problem 2:

Check whether a given number is palindrome or not

```
#!/bin/bash
echo "Input a number:"
read num
n=$num
rev=0
while [ $num -gt 0 ]
do
  rem=`expr $num % 10`
  re=`expr $rev \* 10`
  rev=`expr $re + $rem`
  num=`expr $num / 10`
done
if [ $n -eq $rev ]
then
  echo "$n is palindrome"
else
  echo "$n is not palindrome"
fi
```

Output:

```
Input a number: 121
121 is palindrome
```

Problem 3:

Find the reverse of a given string

```
#!/bin/bash
echo "Enter the string to be reversed : "
read str
l=${#str}
echo "$I"

for (( i=$I-1; i>=0 ; i-- ))
do
    rev="$rev${str:$i:1}" # Concatenation
done

echo "Reverse of $str is $rev"
```

Output:

Enter the string to be reversed: abcdef

Reverse of abcdef is fedcba

Problem 4:

Print odd numbers between 1 and 100

```
#!/bin/bash

n=1
while [ $n -lt 100 ]
do
    # rem=`expr $n % 2 `
    if [ `expr $n % 2 ` -ne 0 ]
    then
        echo $n
    fi
        n=`expr $n + 1 `
done
```

Output: