1. Prime number which sum of digit is 5:

```
echo 'enter lower limit'
read I
echo 'enter upper limit'
read u
for((j=l;j\leq=u;j++))
do
    c=0
    for((i=1;i<=j;i++))
    do
         if test `expr $j % $i` -eq 0
         then
             c=`expr $c + 1`
         fi
    done
    if test $c -eq 2
    then
         #echo $j
         s=0
         t=$j
         while test $t -ne 0
         do
              r='expr $t % 10'
             s=`expr $s + $r`
             t=`expr $t / 10`
         done
         if test $s -eq 5
         then
              echo $j
         fi
    fi
done
```

2. Prime palindrome in range:

```
echo 'enter lower limit'
read I
echo 'enter upper limit'
read u
for((j=l;j\leq=u;j++))
do
    c=0
    for((i=1;i<=j;i++))
    do
         if test `expr $j % $i` -eq 0
         then
             c=`expr $c + 1`
         fi
    done
    if test $c -eq 2
    then
         #echo $j
         s=0
         t=$j
         while test $t -ne 0
         do
              r=`expr $t % 10`
              s=`expr $s \* 10 + $r`
              t=`expr $t / 10`
         done
         if test $s -eq $j
         then
              echo $s
         fi
    fi
done
```

3. String Palindrome:

```
echo 'enter a string'
read n
t=$n
s1=`echo $n | wc -c`
s=`expr $s1 - 1`
while test $s -ne 0
do
    b=`echo $n | cut -c$s`
    u=$u$b
    s=`expr $s - 1`
done
if test $u = $t
then
    echo 'Palindrome'
else
    echo 'not palindrome'
fi
```

4. Sum of even number and sum of odd number in given range:

```
echo 'enter lower lim'

read I

echo 'enter upper lim'

read u

e=0

o=0

for((i=1;i<=u;i++))

do

    if test `expr $i % 2` -eq 0
    then

        e=`expr $e + $i`

    else

        o=`expr $0 + $i`
```

done

echo 'sum of even numbers = '\$e echo 'sum of odd numbers = '\$o

5. Multiply of 3 in a number:

```
echo 'Enter a number'

read n

echo 'Multiple of 3 are : '

while test $n -ne 0

do

r=`expr $n % 10`

if test `expr $r % 3` -eq 0

then

echo $r

fi

n=`expr $n / 10`

done
```

9. find prime number from a fiven number:

```
echo 'Enter a number'

read n

v=0

while test $n -ne 0

do

r=`expr $n % 10`

c=0

for((i=1;i<=r;i++))

do

if test `expr $r % $i` -eq 0

then

c=`expr $c + 1`

fi

done
```

```
if test $c -eq 2
    then
        echo $r' prime'
        v=`expr $v + 1`
    fi
    n=`expr $n / 10`
done
if test $v -eq 0
then
    echo 'no prime found'
fi
8. Reverse of a string:
```

```
echo 'enter a string'
read n
s1=`echo $n | wc -c`
s=`expr $s1 - 1`
while test $s -ne 0
do
    v=`echo $n | cut -c$s`
    u=$u$v
    s=`expr $s - 1`
done
echo $u
```

7.fibonacci series

```
echo -n $ n1'
     n3= 1expx $n1+ $n2'
     n1 = $ n2
     n2 = $ n3
```

6. Kite pattern

```
Following Pattorn *
echo 'Enter the now'
nead n
for ((i=0; i<n; i++))
   fon ((j=n-i; j71; j--))
   90
        echo -n ' '
   done mass mass and sales
   for (( K=0; K(=i; K++))
   done
   echo ' '
done
m = 'expx $n-1'
for ((++); i(= m; i++))"
do
    for ((K=1; K<i; K++))
    echo -n'
    done
     echo -n' *'
   done
```