1. **area**

echo -n "Enter the radius of a circle : "

read r

# use formula to get it

area=$(echo "scale=2;3.14 \* ($r \* $r)" | bc)

# use formula to get it

d=$(echo "scale=2;2 \* $r"|bc)

circumference=$(echo "scale=2;3.14 \* $d"| bc)

echo "Area of circle is $area"

echo "Circumference of circle is $circumference"

1. reactangle

echo "Enter the width and height of rectangle:"

read width

read height

echo "Area of the rectangle is:"

expr $width \\* $height

1. reverse number

echo "Enter a number"

read n

sd=0

rev=0

while [ $n -gt 0 ]

do

sd=$(( $n % 10 ))

rev=$(( $rev \*\ 10 + $sd ))

n=$(( $n / 10 ))

done

echo "Reverse number of entered digit is $rev"

1. **prime number**

echo -n "Enter a number: "  
read num  
i=2  
  
while [ $i -lt $num ]  
do  
 if [ `expr $num % $i` -eq 0 ]  
 then  
 echo "$num is not a prime number"  
 echo "Since it is divisible by $i"  
 exit  
 fi  
 i=`expr $i + 1`  
done  
  
echo "$num is a prime number "