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**LAB-2**

**AIM:To solve problems using Shell Scripting.**

1.Write a program to to find whether the given number is even or odd.

#!/bin/sh

echo "enter a number"

read num

if [ `expr $num % 2` -eq 0 ]

then

echo "number is even"

else

echo "number is odd"

fi

OUTPUT:



2.Write a program to find whether the given number is prime or not.

#!/bin/sh

echo "enter a number"

read num

i=2

while [ $i -lt $num ]

do

if [ `expr $num % $i` -eq 0 ]

then

echo "number is not prime"

exit

fi

i=`expr $i + 1`

done

echo "number is prime"

OUTPUT:



3.Write a program to find the fibonacci series.

#!/bin/sh

echo "enter the number"

read num

num1=0

num2=1

i=2

echo $num1

echo $num2

while [ $i -lt $num ]

do

num3=`expr $num1 + $num2`

echo $num3

num1=$num2

num2=$num3

i=`expr $i + 1`

done

OUTPUT:



4.Write a program using all operators.

#!/bin/sh

c=`expr 5 + 6 `

a=3

b=4

d=`expr $a \\* $b `

echo $c

echo $d

echo "enter first variable"

read var1

echo "enter second variable"

read var2

res=`expr $var1 % $var2 `

echo "result is"$res

echo `expr 5 + 4 `

OUTPUT:



5.Write a program to find whether the given number is perfect or n.

#!/bin/sh

echo "enter a number"

read num

i=1

sum=0

while [ $i -lt $num ]

do

if [ `expr $num % $i` -eq 0 ]

then

sum=`expr $sum + $i `

fi

i=`expr $i + 1`

done

if [ $sum -eq $num ]

then

echo "number is perfect"

else

echo "number is not perfect"

fi

OUTPUT:

