OPERATING SYSTEMS

COURSE CODE: UCT401

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CSBS3

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Question 1: EVEN ODD:

```
echo "enter a number"
read a
if [ `expr $a \% 2` -eq 0 ]
then echo "even"
else echo "odd"
fi
~
```

OUTPUT:

```
~/a$ bash evenodd
enter a number
5
odd
~/a$ bash evenodd
enter a number
4
even
~/a$
```

Question 2: PRIME NUMBER:

```
echo "enter a number:"
read num
for((i=2; i<=num/2; i++))
do
  if [ `expr $num \% $i`-eq 0 ]
  then
    echo "$num is not a prime number."
    exit
  fi
done
echo "$num is a prime number."
~
```

OUTPUT:

```
~/a$ bash primeno
enter a number:
7
7 is a prime number.
~/a$ bash primeno
enter a number:
6
6 is not a prime number.
```

Question 3: FACTORIAL:

```
echo " enter a number:"
read num
fact=1
while [ $num -gt 1 ]
do
   fact=`expr $num \* $fact`
   num=`expr $num - 1`
done
echo $fact
```

OUTPUT:

```
~/a$ bash fact
 enter a number:
5
120
```

Question 4: FIBONACCI SERIES:

```
echo "enter a number:"
read N

a=0

b=1

echo "The Fibonacci series is : "

for (( i=0; i<N; i++ ))
do
    echo -n "$a "
    ans=`expr $a + $b`
    a=$b
    b=$ans
done
```

OUTPUT:

```
~/a$ bash fibna
enter a number:
5
The Fibonacci series is :
0 1 1 2 3 ~/a$
```

Question 5 : SUM OF SERIES:

```
echo " enter a number:"
read num
sum=0
while [ $num -gt 0 ]
do
        sum=`expr $num + $sum`
        num=`expr $num - 1`
done

echo $sum
```

OUTPUT:

```
~/a$ bash sos
 enter a number:
10
55
```