Basic shell scripting:

1)Write a shell script program to find the sum of two numbers

echo enter a number

read x

echo enter a number

read y

sum=$(($x+$y))

2)Write a shell script to check whether a number is even or not from range 1 to 50.

for((i=1;i<=50;i++))

do

if[$((i%2)) -eq 0]

then

echo $i is even

fi

done

3)Write a shell script to find average of n numbers.

echo enter the value of n

read n

sum = 0

echo enter the number

for((i=1;i<=$n;i++))

do

read a

sum =$((sum+a))

done

avg=$(echo $sum/$n | bc -l)

echo average is= $avg

4)Write a shell script to find the factorial of a number

echo enter a number

read num

fact = 1

while [$num -gt 1]

do

fact = $((fact\*num))

num = $((num-1))

done

echo $fact

5)Write a shell script to find a sum of n numbers using while loop

echo enter size

read N

i = 1

sum = 0

echo enter numbers

while [$i -le $N]

do

read num

sum = $((sum+num))

i = $((i+1))

done

echo $sum

6)Write a check a number is prime or not

echo enter a number

read p

if [$p -lt 1] then

echo $p is not a prime number

exit |

fi

if [$((p%2)) -eq 0] then

echo $p is not a prime number

exit |

fi

for((i = 3;i<=$((p \*\* 0.5));i+=2)) do

if($((p%i)) -eq 0) then

echo $p is not a prime number

exit |

fi

done

echo $p is a prime number

More Shell Programming:

1)write a shell script program to generate the Fibonacci series

#!/bin/bash

echo enter number of terms

read n

a=0

b=1

echo -n “$a”

echo -n “$b”

echo Fibonacci series

for((i=0;i<n;i++))

do

fn=$((a+b))

a=$b

b=$fn

echo -n “$a”

done

echo

2)write a shell script program to print the following pattern using nested for loop

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

#!/bin/bash

for i in {1..5}

do

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

do

echo -n “$i”

done

echo ””

done

3)write a shell script program to find reverse of a number.

#!/bin/bash

echo enter a number

read num

rev = 0

while [$num -gt 0] do

d = $((num % 10))

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

num=$((num/10))

done

echo Reverse is: $rev

4)write a shell script program to find the length of a string

#!/bin/bash

echo enter a string

read str

len = ${#str}

echo Length is: $len

5)write a program to find the square root of a number.

#!/bin/bash

echo enter a number

read num

s = $(echo “scale=4; sqrt($n)” | bc)

echo square root of $n is $s

6)write a shell script program to find largest of three numbers

#!/bin/bash

echo enter 1st number

read n1

echo enter 2nd number

read n2

echo enter 3rd number

read n3

L = $n1

if [$n2 -gt $L] then

L=$n2

fi

if [$n3 -gt $L] then

L=$n3

fi

echo Largest: $L