Q1

#!/bin/bashecho "enter the range"read necho "the prime no are:"m=2while [ $m -le $n ]do i=2 flag=0 while [ $i -le `expr $m / 2` ] do if [[ `expr $m % $i` -eq 0 ]] then flag=1

break

fi

i=`expr $i + 1`

done

if [ $flag -eq 0 ]

then

echo $m

fi

m=`expr $m + 1`

done

Q2

#!/bin/bash

echo "enter number:"

read a

num= `expr $a % 2 `

if [[ $num -eq 0 ]]

then

echo "number is even"

else

echo "number is odd"

fi

Q3

#!/bin/bash

echo "enter number:"

read a

bin\_no=""

while [ $a -gt 0 ]

do

rem=`expr $a % 2 `

bin\_no=$rem$bin\_no

a=`expr $a / 2 `

done

echo "$bin\_no"

Q4

#!/bin/bash

echo "enter a first number"

read first

echo " enter a second number"

read second

temp=$first

first=$second

second=$temp

echo "After swapping, numbers are: "

echo "first = $first, second = $second"

Q5

#!/bin/bash

echo "enter a first number"

read p

echo "enter a second number"

read q

echo "before swapping p is $p and q is $q"

p=$((p+q))

q=$((p-q))

p=$((p-q))

echo "after swapping p is $p and q is $q"

Q6

#!/bin/bash

echo "enter a no"

read n

rev=0

while [[ $n -gt 0 ]]

do

a=` expr $n % 10`

rev=` expr $rev \\* 10 + $a `

n=` expr $n / 10 `

done

echo "$rev"

Q7

root@LAPTOP-OT46FJFD:/day3# cat Q7.sh

#!/bin/bash

echo "enter a number"

read n

i=1

while [ $i -le 10 ]

do

echo "$n \* $i = $((n \* i ))"

i=$(( i + 1 ))

done

root@LAPTOP-OT46FJFD:/day3# bash Q7.sh

enter a number

4

4 \* 1 = 4

4 \* 2 = 8

4 \* 3 = 12

4 \* 4 = 16

4 \* 5 = 20

4 \* 6 = 24

4 \* 7 = 28

4 \* 8 = 32

4 \* 9 = 36

4 \* 10 = 40

Q8

#!/binbash

echo “enter a year: “

read y

if [[ $y%400 - eq 0]] && [[ $y%100 -eq 0 ]]

then

echo “leap year”

elif [[ $y%100 -ne 0 ]] && [[ $y%4 -eq 0 ]]

then

echo “leap year”

else

echo “not a leap year”

fi