

Lab 5 Assignment

Q1)

```
#!/bin/bash
read -p "enter first number" number1
read -p "enter second number" number2
read -p "enter third number" number3
if [ "$number1" -ge "$number2" ]; then
    if [ "$number1" -ge "$number2" ]; then
        echo $number1
    fi
elif [ "$number2" -ge "$number3" ]; then
    if [ "$number2" -ge "$number1" ]; then
        echo $number2
    fi
else
    echo $number3
fi
```

Q2)

```
#!/bin/bash
nfiles=`ls | wc -l`
echo $nfiles
```

Q3)

```
#!/bin/bash
for i in 1 2 3 4 5 6 7 8 9 10
do
    echo "$i"
done
```

Q4)

```
#!/bin/bash
read -p "Enter user" user
l=`who | cut -d: -f1`
x=0
echo "$l"
while test "$x" -eq 0
do
    l=`who | cut -d: -f1`
    z=`echo "$l" | grep -c "$user"`
    if [ "$z" == '1' ]; then
        x=1
        break
    else
        echo `su "$user"`
    fi
done
```

```
fi
done
```

Q5)

```
#!/bin/bash
cat employee
ans=1
while test "$ans" -eq 1
do
    read -p "enter name" name
    read -p "enter grade" grade
    read -p "enter basic salary" salary
    echo $name ";" $grade ";" $salary >> employee
    read -p "Enter 1 to continue, if you wish to stop, enter 0" ans
done
```

Q6)

```
#!/bin/bash
echo "1:ls"
echo "2:pwd"
echo "3:date"
echo "4:cal"
echo "5:who"
read -p "Enter the number to execute the corresponding command" op
if [ "$op" -eq 1 ]; then
    echo `ls`
elif [ "$op" -eq 2 ]; then
    echo `pwd`
elif [ "$op" -eq 3 ]; then
    echo `date`
elif [ "$op" -eq 4 ]; then
    echo `cal`
elif [ "$op" -eq 5 ]; then
    echo `who`
fi
```

Q7)

```
#!/bin/bash
read -p "Enter file name to be checked for existence" file
if [ -e $file ]; then
    echo true
else
    echo false
fi
```

Q8)

```
#!/bin/bash
read -p "Enter file name to get mode" file
if [ -r $file ]; then
    echo readable
elif [ -w $file ]; then
    echo writable
elif [ -x $file ]; then
    echo executable
fi
```

Q9)

```
#!/bin/bash

#user will enter 5 numbers and the program will get their sum
sum=0
read -p "enter 1st number" num1
read -p "enter 2nd number" num2
read -p "enter 3rd number" num3
read -p "enter 4th number" num4
read -p "enter 5th number" num5
sum=$((num1+num2+num3+num4+num5))
echo $sum
```

Q10)

```
#!/usr/bin/awk -f
BEGIN {sum=0} {sum+=$8} END {print sum}
```

Q11)

```
#!/bin/bash
read -p "Enter file name to be copied" file1
read -p "Enter target file" file2
echo `cp "$file1" "$file2"`
```

Q12)

```
#!/bin/bash
j=1
while test "$j" -lt 21
do
    echo "$j"
    j=$((j+2))
done
```

Q13)

```
#!/bin/bash
```

```
read -p "Enter number whose factorial is to be calculated" number
fact=1
for i in $(seq 1 $number)
do
    fact=$(( $fact*$i ))
done
echo "$fact"
```

Q14)

```
#!/bin/bash
read -p "Enter a five digit number" n
sum=0
temp="$n"
while test "$temp" -gt 0
do
    sum=$(( ($temp%10)+$sum ))
    temp=$(( $temp/10 ))
done
echo "$sum"
```

Q15)

```
#!/bin/bash
read -p "Enter a number" num
a=1
b=1
echo "$a"
while test "$b" -le "$num"
do
    z=$(( $a+$b ))
    echo "$b"
    a=$b
    b=$z
done
```

Q16)

```
#!/bin/bash
read -p "Enter a number" n
echo "$n" | rev
```