

SM Lab Assignment-5

1. #!/bin/bash

#prints maximum of 3 numbers

echo "Enter three numbers to find their maximum"

read -p "Enter first number " n1

read -p "Enter second number " n2

read -p "Enter third number " n3

max=\$n1

if ["\$n2" -gt "\$max"]

then

max=\$n2

fi

if ["\$n3" -gt "\$max"]

then

max=\$n3

fi

echo "max" \$max

2. #!/bin/bash

echo "Number of files and subdirectory in this directory are- "

ls -a | wc | awk '{print \$1}'

3. #!/bin/bash

prints first 10 positive numbers

echo "First ten positive integers are- "

count=1

until test \$count -gt 10

do

echo \$count

count=\$((count + 1))

done

4. #!/bin/bash

```

read -p "Enter user name " user
until who | grep -E "$user"
do
    sleep 60
done
echo "$user logged in"

```

5. #!/bin/bash

```

read -p "Enter your name " name
read -p "Enter grade " grade
read -p "Enter salary " salary
echo $name',' $grade',' $salary > employee
echo "Enter 1 to enter name, grade and salary to the file employee"
echo "Enter 0 to exit"
read -p "Enter your number " number
while test $number -ne 0
do
    read -p "Enter your name " name
    read -p "Enter grade " grade
    read -p "Enter salary " salary
    echo $name',' $grade',' $salary >> employee
    echo "Enter 1 to enter name, grade and salary to the file employee"
    echo "Enter 0 to exit"
    read -p "Enter your number " number
done
cat employee

```

6. #!/bin/bash

```

# menu driven
echo "Enter 1 to print the name Akshala"
echo "Enter 2 to print the name Abhimanyu"
read -p "Enter number " n

```

```

if [ "$n" -eq 1 ]
then
    echo "Akshala"
elif [ "$n" -eq 2 ]
then
    echo "Abhimanyu"
else
    echo "Invalid input"
fi

```

7. #!/bin/bash

```

read -p "Enter file name to check whether it exists or not " file
if [ -f "$file" ]
then
    echo "$file found."
else
    echo "$file not found."
fi

```

8. #!/bin/bash

```

read -p "Enter file name to find its mode " file
ls -l | grep $file | awk '{print $1}'

```

9. #!/bin/bash

```

echo "Enter 3 numbers to find their sum"
read -p "Enter first number " n1
read -p "Enter second number " n2
read -p "Enter third number " n3
sum=$((n1 + n2 + n3))
echo "sum" $sum

```

10. #!/bin/awk

```

BEGIN{sum=0}

```

```
{sum=sum+$8}
END{print sum}
#awk -f 10.awk Practice
```

```
11. #!/bin/bash
read -p "Enter name of source file " src
read -p "Enter name of target file " target
cp $src $target
```

```
12. #!/bin/sh
echo "First 10 odd integers are - "
for i in $(seq 1 20)
do
    rem=$((i%2))
    if [ "$rem" -ne 0 ]
    then
        echo $i
    fi
done
```

```
13. #!/bin/bash
read -p "Enter number to find its factorial " number
fact=1
count=1
while test $count -le $number
do
    fact=$((fact*$count))
    count=$((count +1))
done
echo "factorial" $fact
```

```
14. #!/bin/bash
read -p "Enter a five digit number to find the sum of its digits " number
```

```
sum=0
while test $number -gt 0
do
    rem=$(( $number % 10 ))
    sum=$(( $sum + $rem ))
    number=$(( $number / 10 ))
done
echo "sum" $sum
```

15. #!/bin/bash

```
read -p "Enter the number of terms in the fibonacci series " number
a=1
b=1
echo $a
echo $b
while test $number -gt 2
do
    next=$(( $a + $b ))
    echo $next
    a=$b
    b=$next
    number=$(( $number - 1 ))
done
```

16. #!/bin/bash

```
read -p "Enter number to reverse its digits " number
echo $number > num
rev $num
```