

1) #!/bin/bash

```
read -p "1st Number " n1
read -p "2nd Number " n2
read -p "3rd Number " n3
```

```
maximum=$n1
for i in $n1 $n2 $n3
do
    if [ $i -gt $maximum ]
    then
        maximum=$i
    fi
done
```

```
echo "$maximum"
```

2) #!/bin/bash

```
read -p "enter path of directory" dir
k=`ls "$dir" | wc -l`
echo "$k"
```

3) #!/bin/bash

```
c=1
until [ $c -gt 10 ]
do
    echo "$c"
    c=$((c+1))
done
```

4) #!/bin/bash

```
read -p "enter username " username

s=`who | awk '{print $1}' | grep -w $username`

while :
do
    if [ "$s" == "$username" ]
    then
        echo "$username has logged in"
        break
    fi
done
```

```

        fi
        read -p "enter username " username
        s=`who | awk '{print $1}' | grep -w $username`
done

5) #!/bin/bash

read -p "name " name
read -p "grade " grade
read -p "basic salary " salary

echo "$name,$grade,$salary" >> ~/Desktop/employee.txt

read -p "c to continue e for exit " userip

while [ "$userip" == "c" ]
do
    read -p "name " name
    read -p "grade " grade
    read -p "basic salary " salary
    echo "$name,$grade,$salary" >> ~/Desktop/employee.txt
    read -p "c to continue and e for exit " userip
    if [ "$userip" == "e" ]
    then
        break
    fi
done

```

```

6) #!/bin/bash

while true:
do
    echo "1- ls -l for the current directory"
    echo "2- finger (displays all the user information)"
    echo "3- tty (displays the file for terminal)"
    echo "4- ps aux (information about process which are running)"
    echo "5- cal (display calender of current month)"
    echo "0. Exit"
    read -p "select the option number" nums
    if [ $nums == '1' ]
    then
        echo `ls -l`
    elif [ $nums == '2' ]

```

```

then
    echo `finger`
elif [ $nums == '3' ]
then
    echo `tty`
elif [ $nums == '4' ]
then
    echo `ps aux`
elif [ $nums == '5' ]
then
    echo `cal`
elif [ $nums == '0' ]
then
    break
else
    echo "you have entered a wrong choice"
fi
done

```

7) #!/bin/bash

```

read -p "file name: " t
a=`ls -R / | grep -w "$f"`

if [ "$a" == "$f" ]
then
    echo "This file exists"
else
    echo "This file doesnt exist"
fi

```

8) #!/bin/bash

```

read -p "enter filename " file

[ -w "$file" ] && w="write = yes" || w="write = No"
[ -x "$file" ] && e="execute = yes" || e="execute = No"
[ -r "$file" ] && r="read = yes" || r="read = No"

echo "$w"
echo "$r"
echo "$e"

```

9) #!/bin/bash

```
read -p "how many numbers you want to add " init
c=0
sum=0
while [ $c -lt $init ]
do
    read -p "enter number to add " number
    sum=$((sum + number))
    c=$((c+1))
done
echo "sum=$sum"
```

10) #!/bin/bash

```
s=`cat employee.txt | awk -F',' '{sum+=$3}END {print sum}`
echo "$s"
```

11) #!/bin/bash

```
read -p "enter source " sourcef
read -p "enter target " targetf

cp "$sourcef" "$targetf"
```

12) #!/bin/bash

```
i=0
while [ $i -lt 10 ]
do
    echo "$(((2*i)+1))"
    i=$((i+1))
done
```

13) #!/bin/bash

```
read -p "enter number " num
i=$num
j=1
while [ $i -gt 0 ]
do
    j=$((num*j))
    i=$((i-1))
    num=$((num-1))
done
```

```
echo "$j"
```

```
14) #!/bin/bash
```

```
read -p "enter number " num
digits=0
sum=0
while [ $num -gt 0 ]
do
    digits=$(( $num % 10 ))
    num=$(( $num / 10 ))
    sum=$(( $sum + $digits ))
done
echo "Sum of digits=$sum"
```

```
15) #!/bin/bash
```

```
read -p "enter number of terms " terms
n1=1
n2=1
count=0
if [ $terms -eq 1 ]
then
    echo "$n1"
else
    while [ $count -lt $terms ]
    do
        echo "$n1"
        temp=$((n1+n2))
        n1=$n2
        n2=$temp
        count=$((count+1))
    done
fi
```

```
16) #!/bin/bash
```

```
read -p "enter number " num
echo $num | rev
```