

Bash Scripts Collection

Script 1

```
#!/bin/bash

# Take input from user
echo "Enter first number: "
read num1

echo "Enter second number: "
read num2

# Add the numbers
sum=$((num1 + num2))

# Print result
echo "Sum: $sum"
```

Script 2

```
#!/bin/bash

echo "Enter first number: "
read num1

echo "Enter second number: "
read num2

if [ "$num1" = "$num2" ];
then echo "Strings are equal"
else
    echo "Strings are not equal"
fi
```

Script 3

```
#!/bin/bash

# Read the number of terms
echo "Enter the number of terms: "
read n

# First two Fibonacci numbers
a=0
b=1

echo "Fibonacci series up to $n terms:"

for (( i=0; i<n; i++ ))
do
    echo -n "$a "
    fn=$((a + b))
    a=$b
    b=$fn
done

echo
```

Script 4

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

```

echo "Enter a character: "
read ch

ch=$(echo "$ch" | tr '[:upper:]' '[:lower:]')

case $ch in
    a|e|i|o|u)
        echo "$ch is a Vowel."
        ;;
    [b-df-hj-np-tv-z])
        echo "$ch is a Consonant."
        ;;
    *)
        echo "Invalid input! Please enter an alphabet."
        ;;
esac

```

Script 5

```

#!/bin/bash

# Check if filename is provided
if [ $# -ne 1 ]; then
    echo "Usage: $0 filename"
    exit 1
fi

file=$1

# Check if file exists
if [ ! -f "$file" ]; then
    echo "File not found!"
    exit 1
fi

# Count words and lines
words=$(wc -w < "$file")
lines=$(wc -l < "$file")

echo "Total number of words in $file: $words"
echo "Total number of lines in $file: $lines"

```

Script 6

```

#!/bin/bash

if [ $# -ne 1 ]; then
    echo "Usage: $0 filename"
    exit 1
fi

file=$1

if [ ! -f "$file" ]; then
    echo "File not found!"
    exit 1
fi

echo "File: $file"
echo "Size: $(stat -c%s "$file") bytes"
echo "Permissions: $(stat -c%A "$file")"
echo "Owner: $(stat -c%U "$file")"
echo "Group: $(stat -c%G "$file")"
echo "Last modification: $(stat -c%y "$file")"

```

Script 7

```
#!/bin/bash

echo "System Information"

echo -e "\nOS Version:"
uname -a

echo -e "\nCPU Information:"
lscpu | grep "Model name\|Architecture\|CPU(s) "

echo -e "\nMemory Usage:"
free -h

echo -e "\nDisk Usage:"
df -h --total | grep "total"

# Network details
echo -e "\nNetwork Details:"
ip -br addr
```