

05

① #!/bin/bash

read -a num

sum=0

for i in "\${num[@]}"; do

sum=\$((sum+i))

done

echo \$sum

② #!/bin/bash

file="notes.txt"

if [-f "\$file"]; then

count=\$(wc -w < "\$file")

echo \$count

else

echo "file doesn't exist."

fi

③ #!/bin/bash

file="records.txt"

if [-f "\$file"]; then

count=\$(wc -l < "\$file")

echo \$count

else

echo "file doesn't exist."

fi

④ #!/bin/bash

if [-f log.txt]; then

sed -i 's/error/issue/g' log.txt

cat log.txt

else

echo "file Not found!"

fi

⑤ #!/bin/bash

wcount=0

while read -r line; do

wcount=\$((wcount+\${#line} - \${#line%*}))

done < "\$file.txt"

⑥ #!/bin/bash

a=0

b=1

sum=0

for ((i=0; i<=10; i++)); do

sum=\$((sum+a))

next=\$((a+b))

a=\$b

b=\$next

done

echo \$sum

③ #!/bin/bash

read num

factorial=1

if [\$num -lt 0]; then

echo "Invalid"

else

for ((i=1; i<=num; i++)); do

factorial=\$((factorial * i))

done

echo "The factorial of \$num is:
\$factorial"

fi

④ #!/bin/bash

if [-f info.txt]; then

head -n 10 info.txt

elif

echo "File not found!"

fi

⑤ #!/bin/bash
array=(10 50 30 40 100 60)

echo "\${array[@]} | tr ' ' '\n' |
sort | uniq -c"

⑥ #!/bin/bash

if [-f data.txt]; then

tail -n 5 data.txt

else echo "File not found!"

fi

⑦ #!/bin/bash

if [-f output.txt]; then

const=\$((grep -o "Info" output.txt |
wc -l))

echo \$const

else

echo "File Not Found!"

fi

⑧ #!/bin/bash

if [-f log.txt]; then

tail log.txt

else

echo "File Not Found!"

fi

⑨ #!/bin/bash

if [-f words.txt]; then

grep -l "Priority" words.txt

else

echo "File not found!"

fi

⑩ #!/bin/bash

read N

Product=1

term=1

if [\$N -lt 1]; then

echo "Invalid"

else

for ((i=1; i<=N; i++)); do

Product=\$((Product * term))

term=\$((term * 10 + 1))

done
echo \$Product

⑮ #!/bin/bash

read N.

product = 1

term = 10

if [$N - 1 > 1$]; then

echo "Term 1!"

else

for ((i=1; i<=N; i++)) do

product = $\$(product * term)$

term = $\$(term * 10)$

done

echo \$product

fi

⑯ #!/bin/bash

array=(10 20 50 70 100 60)

largest = "\${array[@]}"; do

if [$i - 2 > \text{largest}$]; then

largest = i

fi

done

echo \$largest

⑰ #!/bin/bash

array=(1 2 3 4 5)

total=0

for i in "\${array[@]}"; do

total = $\$(total + i * i)$

done

echo \$total

⑱ #!/bin/bash

if grep -q "Completed" task.txt; then

echo "Exists"

else

echo "Not Exists"

fi

⑲ #!/bin/bash

while IFS = ' ' read -r line

do

name=($\$line$)

if [$\{\#\text{name}[@]\} -ge 3$]; then

echo "\${name[2]}, \${name[1]}, \${name[0]}

else

echo "Error!"

fi

done < names.txt

⑳ #!/bin/bash

if [-f notes.txt]; then

count = $\$(grep -o -w "word" notes.txt | wc -l)$

echo "word appears \$count times"

else

echo "File doesn't exist"

fi

21) #!/bin/bash

```
if [ -f log.txt ]; then
    sed -i '1^$1d' log.txt
    cat log.txt
else
    echo "file not found!"
fi
```

22) #!/bin/bash

```
read -a frame
for file in "${frame[@]}"; do
    sort $file
done
```

23) #!/bin/bash

```
if [ -f data.txt ]; then
    stat --format=%s data.txt
else
    echo "file not found!"
fi
```

24) #!/bin/bash

```
read -a number
```

```
sum=0
```

```
for nam in "${number[@]}"; do
```

```
if [ $nam -gt 0 ]; then
```

```
    sum=$((sum + i))
```

```
done
echo $sum
```

25) #!/bin/bash

```
read name
```

```
fname=$(echo $name |
    cut -d '-' -f 1)
```

```
lname=$(echo $name |
    cut -d '-' -f 2)
```

```
echo $fname
```

```
echo $lname
```

26) #!/bin/bash

```
read old_word
```

```
read new_word
```

```
if [ -f document.txt ]; then
```

```
    sed -i "s/$old_word/$new_word/g"
        document.txt
```

```
    cat document.txt
```

```
else
```

```
    echo "file not found!"
```

```
fi
```

(27) #!/bin/bash

if [-f logfile.txt] ; then

date >> logfile.txt

else

echo "file not found!"

fi

(30) #!/bin/bash

if [-f data.txt] ; then

sort -n data.txt

else

echo "file not found!"

fi

(28) #!/bin/bash

array=(10 30 50 70 100)

sum=0

arraylen=\${#array[@]}

for i in "\${array[@]}" ; do

sum=\$((sum + i))

done

avg=\$((echo "scale=2; \$sum / \$arraylen" | bc))

echo "Avg of array elements: \$avg"

(29) #!/bin/bash

files=\$(find . -type f | wc -l)

dirs=\$(find . -type d | wc -l)

echo \$files

echo \$((dirs - 1))