=> shell sinipling;

## Assignment !

Write a shell script to check if given number is prime number or not write a shell script to check given number is even or odd write a shell script to check given string is palindrome or not

sh ghein -

=> Command line Arguments

-) supply pass values (Daslingo to script file at the time of execution.

\$ sh +1.5h 44

\$# => total mograp passed \$0 >> get me suiptifile \$1 => lead first (md org \$2 => lead send (md arg \$\* -> keed all (md arg) (md ang -) Data parring to sin 102 yille

cat 13-script.sh #! /bin/bash

RESULT = \$((\$1+\$2))

echo " Sum of Data passed is : \$RESULT"

ubuntu@ip-172-31-41-37:~\$ sh 13-script.sh 4 4
Sum of Data passed is : 8

#! /bin/bash

echo "Total Args/info passed: \$#"

echo "Script file name: \$0"

echo "First Command Line Args: \$1"

echo "Second Command Line Args: \$2"

echo "All Command Line Args: \$\*"

# To get the total number of args echo "Total Args/info passed : \$#"

# To get the script file name echo "Script file name : \$0"

/--> comments are used to provide meta data about our scripts and commands

- --> Meta data --> data about data --> info about info
- --> By Looking at comments any one can easily understand our script
- # is used to write line comments

Multi line comments <<COMMENT this is multi line in acsripting COMMENT

=) Redired output to a log tile !

Redirecting output can be achieved using > (60) > 7 operands

\$ (ommand > log-file + x+ -> ownide
\$ (ommand >> log-file + x+ -) append

date > telusko.txt

cat telusko.txt Sat Mar 1 04:13:52 UTC 2025

pwd > telusko.txt cat telusko.txt /home/ubuntu

date >> telusko.txt cat telusko.txt /home/ubuntu Sat Mar 1 04:15:55 UTC 2025

```
#! /bin/bash
# Define log file path
LOG_FILE=myapp.log
#function to log messages
log_message(){
    local timestamp=$(date + "%Y-%m-%d %T")
    local message=$1
    echo "[$timestamp] $message" >> $LOG_FILE
# call log function
log_message "Script Execution Started"
echo "This is something regular message - 01"
echo "This is something regular message -02"
# simulate error
mkdirs java &> LOG_FILE
#call log function
log_message "Script Execution Completed"
LOG_FILE=myapp.log
# redirect error mesgs to log file
exec 2>> $LOG FILE
# redirect standard mesgs to log file
exec 1>> $LOG_FILE
#function to log messages
log_message(){
    local timestamp=$(date +"%Y-%m-%d %T")
    local message=$1
    echo "[$timestamp] $message" >> $LOG_FILE
# call log function
log_message "Script Execution Started"
echo "This is something regular message - 01"
echo "This is something regular message -02"
# simulate error
mkdirs java
Is abcd
#call log function
log_message "Script Execution Completed"
=> write a shall snipt to print system into
```

#! /bin/bash #This Script file is used to print system info #display current date and time echo "Date & Time: \$(date)" #display host name of the system echo "Hostname: \$(hostname)" #display uptime of system echo "System Uptime: \$(uptime)" #Display Disc usage echo "Disk Usage:" df -h #Display memory usage echo "Memory Usage:" free -h => Shell stript for log analysis :vi log-analizer.sh #! /bin/bash LOG\_FILE="/var/log/syslog" **#Count error messages occurances** ERROR\_COUNT=\$(grep -c "ERROR" "\$LOG\_FILE") #printing count of error messages echo "Number of error in systen log file: \$ERROR\_COUNT" shell stript to treate files backup => (tar)

vi backup.sh #! /bin/bash SOURCE\_DIR=/home/ubuntu/

TARGET\_DIR=/home/ubuntu

echo "backup process starting..."

tar -czvf "\$SOURCE\_DIR/backup\_\$(date +%Y%m%d).tar.gz" "\$TARGET\_DIR"

echo "backup is completed with a tar file"

wite shell siript to reate project structure

```
#! /bin/bash
PROJECT_NAME="teluskoapp"
ROOT_DIR=$(pwd)
create_project(){
    mkdir $1
    mkdir $1/src
    mkdir $1/tests
    mkdir $1/docs
    mkdir $1/config
    touch $1/config/config.yaml
    touch $1/docs/README.md
    touch $1/src/app.js
    touch $1/src/main.css
    touch $1/src/index.html
    touch $1/tests/test.js
create_project $ROOT_DIR/$PROJECT_NAME
   sulo apt install he
```

Sudo map install tree

tree teluskoapp			
teluskoapp			
config			
config.yaml			
docs			
L— README.md			
app.js			
index.html			
i main.css			
tests			
test.js			
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