1.A

#!/bin/bash

FILE="myfile.txt"

if [ -f "$FILE" ]; then

echo "File $FILE exists."

else

echo "File $FILE does not exist."

Fi

2.A

#!/bin/bash

while true; do

read -p "Enter a number (enter 0 to exit): " num

if [[ $num -eq 0 ]]; then

echo "Exiting..."

break

elif [[ $num =~ ^-?[0-9]+$ ]]; then

if [[ $((num % 2)) -eq 0 ]]; then

echo "$num is even."

else

echo "$num is odd."

fi

else

echo "Invalid input. Please enter a valid number."

fi

done

3.A

#!/bin/bash

file path="/path/to/your/file.txt"

number of lines=$(wc -l < "$file path")

echo "Number of lines in '$file\_path': $number\_of\_lines"

4.A

#!/bin/bash

mkdir -p TestDir

for i in {1..10}; do

filename="File${i}.txt"

echo "$filename" > "TestDir/$filename"

done

echo "Directory 'TestDir' and files created successfully!"

6.A

grep "ERROR" log.txt

grep "ERROR" log.txt | awk -F'\t' '{print $1, $2, $3}'

7.A

cat input.txt input.txt.bak

sed -i 's/old\_text/new\_text/g' input.txt

cat input.txt