Assignment 5: **Modify the script to handle errors, such as the directory already existing or lacking permissions to create files. Add a debugging mode that prints additional information when enabled**.

SCRIPT

```
# Set debugging mode (0 for off, 1 for on)

DEBUG=1

# Function to print debug messages

debug() {

  if [ $DEBUG -eq 1 ]; then

    echo "DEBUG: $1"

  fi   }

# Create a directory named TestDirNew

if mkdir -p TestDirNew 2>/dev/null; then

  debug "Directory 'TestDirNew' created or already exists."

else

  echo "Error: Unable to create directory 'TestDirNew'. Check permissions."

  exit 1

fi

# Change to the TestDirNew directory

if cd TestDirNew; then

  debug "Changed to directory 'TestDirNew'."

else

  echo "Error: Unable to change to directory 'TestDirNew'. Check permissions."

  exit 1

fi

# Loop to create 10 files

for i in {1..10}; do

  filename="File$i.txt"

  if echo "$filename" > "$filename" 2>/dev/null; then

    debug "File '$filename' created with content '$filename'."
```

```
    else
        echo "Error: Unable to create file '$filename'. Check permissions."
        exit 1
    fi
done
echo "Files created successfully in TestDirNew."
```

Output:-

DEBUG: Directory 'TestDirNew' created or already exists.

DEBUG: Changed to directory 'TestDirNew'.

DEBUG: File 'File1.txt' created with content 'File1.txt'.

DEBUG: File 'File2.txt' created with content 'File2.txt'.

DEBUG: File 'File3.txt' created with content 'File3.txt'.

DEBUG: File 'File4.txt' created with content 'File4.txt'.

DEBUG: File 'File5.txt' created with content 'File5.txt'.

DEBUG: File 'File6.txt' created with content 'File6.txt'.

DEBUG: File 'File7.txt' created with content 'File7.txt'.

DEBUG: File 'File8.txt' created with content 'File8.txt'.

DEBUG: File 'File9.txt' created with content 'File9.txt'.

DEBUG: File 'File10.txt' created with content 'File10.txt'.

Files created successfully in TestDirNew.