Assignment 5:

```
# 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."
```