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.

```
debug() {

  if [ "$DEBUG_MODE" = true ]; then

    echo "DEBUG: $1";

  fi

}

handle_error() {

  echo "Error: $1";

  exit 1

}

create_files() {

  for ((i=1; i<=10; i++)); do

    filename="File$i.txt";

    debug "Creating file: $filename";

    echo "$filename" > "$filename" || handle_error "Unable to create $filename";

  done

}

main() {

  if [ "$DEBUG_MODE" = true ]; then

    echo "Debugging mode enabled.";

  fi

  if [ ! -d "TestDir1" ]; then

    mkdir TestDir1 || handle_error "Unable to create directory TestDir";

    debug "Directory TestDir created"

  else

    handle_error "Directory TestDir1 already exists";

  fi

  cd TestDir1 || handle_error "Unable to navigate to directory TestDir",

  create_files
```

```
  echo "Files created successfully in TestDir1.";
}
if [ "$1" = "-d" ]; then
  DEBUG_MODE=true;
fi
```