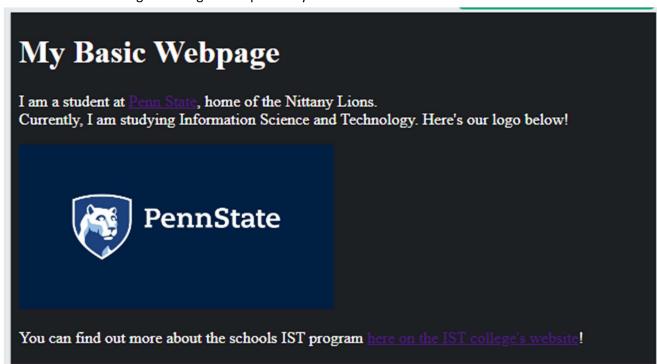
1. Here is an image showing the output of my code:



2. Here is the code used to produce that output: