**CIT460 Exam1 Name: Bailey Miller**

Complete the following steps:

**Step 0:**

Create a project called “*Your last name* Exam1”. All your work needs to be in one script called “main”

Include all needed install and library statements. Avoid setting working directories with absolute paths. All your exam files must be part of the project environment.

**Step 1:**

Read the file movies.csv into a data frame called “movies”

Source: <https://www.kaggle.com/danielgrijalvas/movies#movies.csv>

**Step 2:**

Create and display information on the total number of movies produced, and the total budget for each country.

**Step 3:**

Create and display information on the total number of movies produced, and the total budget for each genre.

**Step 4:**

Display a line chart depicting the total US movie industry budget for all movie types from 1986 to 2016. Save the chart as “step4.png”

**Step 5:**

Redo the previous step for all countries. Save the chart as “step5.png”

**Step 6:**

Add a column called “gross to budget ratio” that shows the percentage of gross over budget ratio.

List the top ten movies with the highest such ratios

**Step 7:**

Write a function called “movie.count” that receives the name of an actor (actress) as parameter and returns the number of movies that the he/she has played in. Test the function for the actors Steve Martin and Drew Barrymore.

**Final step:**

Save all your files. Close the project. Zip the project fodder and submit.