## **PROJECT 2: TOPIC 3**

# **Report**

**File:** Project2.R

Data from ‘movie.csv’ is read into ‘data’.

1. Population (i.e. data with Year>=2015) is stored in ‘pop’. Population Mean is **6.844239**.
2. Sample (i.e. data with Year==2016) is stored in ‘sample’.
3. Hypothesis: Popularity of films (as Rating) increases.
4. Population Standard Deviation is unknown.

T test is done on sample. From the values we got in ‘t’ and ‘t.alpha’ we can conclude that Hypothesis is **FALSE** i.e. popularity of films does not increase in 2016.

1. Population Standard Deviation is known.

Z test is done on sample. From the values we got in ‘z’ and ‘z.alpha’ we can conclude that the Hypothesis is **FALSE** i.e. popularity of films does not increase in 2016.

**Tools Used:** RStudio, R