

BLG 475E: Software Quality and Testing

Fall 2017

Homework #1

Deadline: 8 October 2017

Work in groups of at most 2 people, each group must submit one report to Ninova.

You may submit about two page report that includes answers to the questions. Please use “Times New Roman and 12 pt” as a font. Please be careful about plagiarism while reporting your work. It is not allowed to directly take sentences from the resources. You need to write a summary of what you read in your own words and give references for your answers.

Read the attached resources and watch the following link, and then answer the associated questions.

https://www.youtube.com/watch?v=KH2_sB1A6lA&feature=youtube_gdata_player

Write a report that summarizes the following issues:

1. Write names of six tests that companies generally use.
2. What is continuous testing? How much time does it take to complete this test?
3. What is integration testing? How much time does it take to complete this test?
4. What are the advantages of shift-left testing?
5. Do companies run each test for each submission? When do integration and continuous tests run?
6. What is test flakiness? What is the cost of test-flakiness according to Google team?
7. What is the approach of Google to the failing projects? (i.e. how do they solve the problem?)