

## **Homework/Assignment-1**

Answer the following Questions for each testing technique [10\*10=100 Points]

1. Define/Describe [ 2 points]
2. Explain the testing method with the help of an example code/case study [2 Points]
3. Pros/Cons (advantage/disadvantages) [ 4 points]
4. Which applications use the testing technique [kind of applications, web/ embedded. etc.] and why[justify]? [ 2 Points]
  1. Automation Testing
  2. Data flow Testing
  3. Model Based Testing
  4. Mutation Testing
  5. User Interface(UI)Testing
  6. Integration Testing
  7. Grammar-based testing
  8. Regression Testing
  9. Stress Testing
  10. Performance Testing

**Submission:** Blackboard (online)

**Assignment/Homework Type:** Individual (not group/team work) and Open book

**Submission Type:** PDF document (all questions in one file)

**Due Date:** 10:00 PM, 2/17/2022

### **Note:**

1. You can use any material [google/books/paper/journals]
2. However, you can't copy\paste [plagiarism] from any source directly. The reference Materials need to be rewritten or paraphrased based on your understanding and context: Including code examples/case study
3. Code Examples can be written in any programming language of your choice.

### **[Extra credit/ Bonus] [20 Points]**

Explain below components in a research/term paper [with any **examples** from your understanding after reading model papers from google scholar/any source]

- Title
- Abstract (problem vs solution)
- Introduction
- Related work/History
- Proposed Problem vs solution
- Results
- Future Work
- References