

Tutorial 09: Software Testing

Instructions:

Prepare the answers with a PowerPoint file. State your names and student ID on the file.

Q1. Discuss the differences between verification and validation.

Q2. What is an equivalence partition? Give an example.

Q3. Discuss the differences between white-box testing and black-box testing.

Q4. For the following program specification, construct a flow graph, calculate its cyclomatic complexity, and trace all independent paths.

```
If ( a or b ) and c
  Then
    While x
      procedure y
      If ( f and g )
        Then
          procedure h
        Else
          procedure j
        Endif
      procedure k
    EndWhile
  Else
    procedure z
  Endif
```