**Assignment on:**

**Software Quality Assurance and Testing**

1. **As we discussed in the class do these 7 Principles of Testing**

* Testing shows presence of defects/Bugs
* *Exhausting testing is impossible*
* *Early testing*
* *Defect clustering*
* *Pesticide paradox*
* *Testing is context depending*
* *Absence-of-errors fallacy*

1. Read on **“Code Coverage Tutorial: Types of white box testing such as (Branch, Statement, ~~cyclomatic complexity~~), Decision, FSM”** and write detail of them. See the following with examples

* **Decision-to-Decision (DD) path Graph**
* **Based on DD path graph identify Linearly independent path**
* **Do another one example means ‘cyclomatic complexity’ which is different from slide (ppt)**
* **Note: don’t do cyclomatic complexity since it is already discussed in chapter 4**

1. **Try to install Selenium and Eclipse on your Laptop and try to exercise lab.**

**To do this it needs three platform installation process. These are:**

1. Java installation (JDK)
2. Eclipse installation
3. Selenium installation

**Installation Steps**

Steps: **Eclipse installation**

1. Download Eclipse for JEE developers
2. Extract the zip file
3. Run the application

Step: **Selenium installation**

1. Download the required version of Selenium
2. Install chrome and chrome drivers for your browsers (Hint: this depend on your type of browser you use means if you use mozilla fire fox download Mozilla fire fox driver or if you use google chrome download google chrome driver)
3. Configure Selenium on your Eclipse